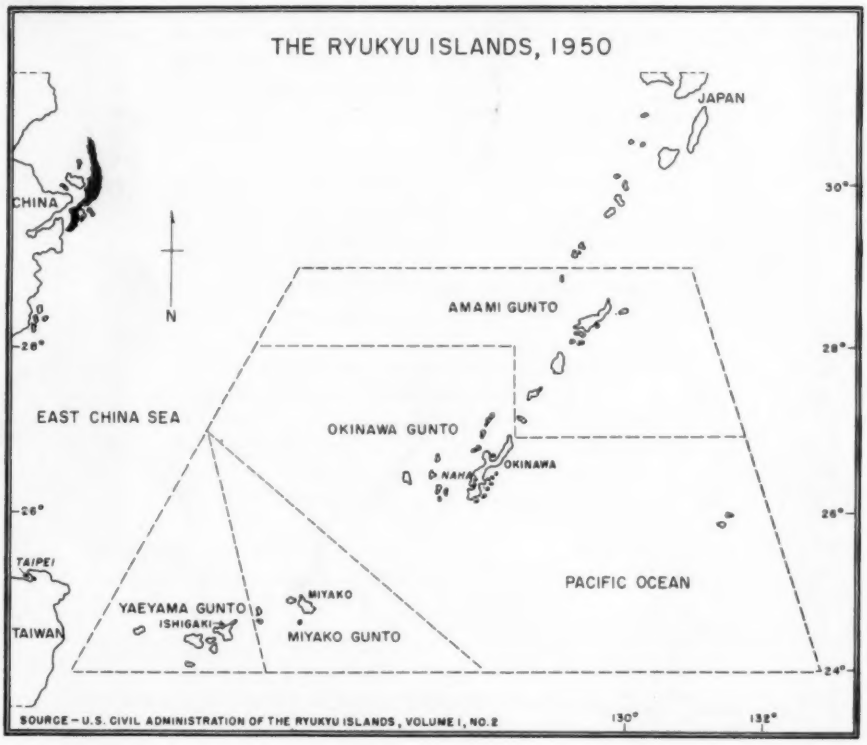
SCIENCES R016.312 P81

PUBLIC LIBRARY
DEC 8 1955
DETROIT

POPULATION INDEX

OCTOBER
1955



VOL. 21 NO. 4

OFFICE OF POPULATION RESEARCH, PRINCETON UNIVERSITY; AND POPULATION ASSOCIATION OF AMERICA, INC.

POPULATION INDEX

Editors: Frank W. Notestein, Dorothy Good
Consulting Editor: Irene Barnes Taeuber

October, 1955

CONTENTS

CURRENT ITEMS — Page

The Population of the Ryukyu Islands - Irene B. Taeuber 233

BIBLIOGRAPHY

A. General Population Studies and Theory 265
B. Regional Population Studies 268
C. Spatial Distribution 273
D. Trends in Population Size 276
E. Mortality 278
F. Fertility and Natural Increase 282
G. Marriage, Divorce, and the Family 285
H. International Migration 286
I. Internal Migration 290
J. Characteristics 291
K. Demographic and Economic Interrelations 294
L. Other Interrelations 297
M. Policies 298
N. Methods of Research and Analysis 300
O. Organization and Administration 301
P. Professional Meetings and Conferences 303
Q. Bibliographies 304
R. New Periodicals 305
S. Official Statistics 305
Subject Index 313
Geographical Index 314
Author Index 316

STATISTICS

Life Expectancy ($\mathring{e}_x$) at Various Ages 323

Vol. 21 No. 4 — Annual Subscription $5.00

Published quarterly by the Office of Population Research, Woodrow Wilson School of Public and International Affairs, Princeton University; and the Population Association of America, Inc.

Communications concerning subscriptions to Population Index should be directed to: Office of Population Research, Princeton University, 5 Ivy Lane, Princeton, N.J.

Communications regarding membership in the Population Association of America, Inc., should be addressed to: Dr. Hugh Carter, Secretary, Population Association of America, National Office of Vital Statistics, Department of Health, Education, and Welfare, Washington 25, D.C.

CURRENT ITEMS

THE POPULATION OF THE RYUKYU ISLANDS

The Ryukyus are small but densely settled islands. In 1950 there were 2,194 persons per square mile of potentially arable land, 4,013 persons per square mile of cultivated land. It is realized within the United States Civil Administration of the Ryukyus and the Government of the Ryukyu Islands, as it was within the Government of Japan, that the population problem is acute. There is some leeway in an increase of the cultivated acreage and an increase in yields per unit cultivated, but it is slight in relation to the size of the annual increment to the population. Industrialization on an adequate scale is neither feasible nor economic; major emigration outlets are not available; fertility is high without substantial evidence of decline, while an already lowered mortality is being reduced further; natural increase is high and may be considerably higher in the future. This is a familiar story in the Far East, and the number of people involved is less than a million. Therefore substantative analysis might seem trivial, were it not for two factors. First, this is another island microcosm for which the interrelations of population, resources, economy, and culture can be studied on a reasonably detailed quantitative basis. Second, despite remoteness of area, divergence in language, and strangeness in culture, the Ryukyu population is now a responsibility of the United States under the terms of the Japanese Surrender of 1945 and the Peace Treaty of 1952. The last major battle of the Pacific War was fought in southern Okinawa, and there today the dominant economic fact for the indigenous people is the United States Air Base.

The Background

The Ryukyus are dots in a great arch of islands that girds the Asian coast from the Arctic waters far north of Hokkaido to the tropical seas of the Indies. They extend in irregular clusters from southern Kyushu in the northwest to northern Taiwan in the southeast; they lie between the China Sea and the Pacific Ocean. (See map on cover page.) In prehistoric times they were accessible to migrants coming up from the southern areas, down from the north via Korea and Japan, or across from China. The area is not hospitable for settlement, though, for land is poor and typhoons are frequent. Marginality in the rice agriculture of the East was a limiting factor for an agricultural civilization, but the great historic roles of the Ryukyus have been played under strategic situations where location was the critical factor. Naha, largest city on Okinawa Island, is 840 miles from Tokyo and 785 miles from Manila, 440 miles from Shanghai, and 355 miles from Taipeh. Cultural and demographic diversity within the islands was almost a necessary consequence of the combination of limited land areas, vast distances, and strategic location. The Amami group are near Kyushu, Japan, while the farthest of the Yaeyama group are near Taiwan. The islands of the Miyako group are close to Yaeyama but separated by a wide ocean barrier from the islands in the central Okinawan group. From Naha-shi in Okinawa it is 220 miles to Nase-shi in Amami, 176 miles to Hirara-shi in Miyako, and 262 miles to Ishigaki-shi in Yaeyama.

The indigenous people were presumably Ainoid groups similar to those inhabiting the more northerly islands of Japan. The peoples who came in during the legendary period were similar to those who

moved into Japan, but the proportions that went into the ethnic amalgam were different. There are traditions of descent from a goddess of creation and of a Tensen dynasty that arose in the ancient days and ruled through a king whose sister was high priestess among the noro who functioned as guardians of the hearth, intermediaries in the spirit world, and counsellors in practical affairs. In 605 A.D., the Chinese ordered an expedition to the Ryukyus, which they believed to be "a land of happy immortals." In the realm of the quasi-legendary is the story of one of the defeated Minamoto chieftains who fled after the defeat by the Taira in the twelfth century, landed in Okinawa, married a daughter of a local lord, and became the father of the great Okinawan King Shunten. The earliest major historical contacts with China occurred in 1372 when a mission arrived to request fealty and tribute for the Ming emperor in Peking. The relation thus established lasted from 1402 until 1873. A Chinese trading group settled in Okinawa; the sons of the kings and the gentry of the capital city of Shuri were sent to China for education.

The golden era of the Ryukyus came in the fifteenth and sixteenth centuries when they became intermediaries in an extensive regional trade between China, Korea, and Japan on the one hand, the southern islands and southeast Asia on the other. During these days a Sinicized élite in a rich city drew away from the ordinary people, but as the processes of change extended outward the peasants deserted the countryside and sought employment and excitement in the thriving towns. With the extension of Japanese trade and piracy and the movement of the Portuguese up from Malacca, the trade of the port of Naha and the economy of the Ryukyus became inadequate to maintain the urban culture that had developed. Difficulties arose in relations with the powerful Shimazu family in adjacent Kyushu. Finally in 1609 the leader of the Shimazu, the daimyo of Satsuma, sent a fleet and an army into the islands. In 1611 the king of the Ryukyus acknowledged his allegiance to Satsuma and submitted to a heavy annual levy.

During the period of seclusion in Japan, from the early seventeenth to the mid-nineteenth century, the Ryukyus were simultaneously vassals of the Chinese in Peking and dependencies of the Satsuma in Kyushu. Since the Shimazu family were among the great outer lords who retained appreciable independence under the Tokugawa, this situation was utilized to breach the seclusion decreed by the Tokugawa in far-away Edo. The Amami Islands were ruled directly, but Okinawa and the southern islands were left nominally free. Missions continued to move between Shuri and Peking, the Japanese withdrawing from public appearance whenever Chinese envoys appeared. The economic problem was difficult, for the relatively high proportion of urban people could not be supported at the accustomed levels solely by extraction from the farmers, and products had to be collected for the Satsuma tribute. The human catastrophe inherent in the situation was averted by two importations from China — the sweet potato in 1609 and sugar cane in 1623. The sweet potato was suited ideally to the climate, soil, and water conditions of the islands; it became the major diet of the people. Sugar was exported to the Satsuma in Kyushu.

It is possible that increases in population followed the introduction of the sweet potato, though there are no records of population changes during this period. The annals are concerned with the needs for resources and productive development rather than population per se. There are reports of reforestation and irrigation projects, storage facilities, and agricultural advances that permitted the growth of two crops of sweet potatoes per year. Continuing notes on catastrophes reveal the perennial difficulties of man-land relations; typhoons, famines, and epidemics

formed a trilogy of woes. Population estimates for the eighteenth and early nineteenth centuries range from 150 to 200 thousand, although the only known basis for any of the figures is the judgement of travellers.

In the middle of the nineteenth century it seemed that the Ryukyus might achieve another transformation, for the United States was considering the establishment of shipping and trade facilities in the area. The opening of Japan to the West precluded this development and consigned the Ryukyus to absorption by Japan. The Amami Islands became part of Kagoshima Prefecture, while the Okinawa, Miyako, and Yaeyama island groups were organized as Okinawa Prefecture. There was a period of vacillating policy and inaction, for the Ryukyus presented complex problems. Their strategic value was reduced once Taiwan was secured. Economically, they were a deficit area; demographically, they needed outlets for their surplus population. Culturally, they differed from Japan in ways that the Japanese defined as backward. Land tenure was still based on a periodic redistribution of cultivated fields. The persistence of the noro priestesses, the use of tattoo on the hands of the married women, and Chinese-influenced hair styles and costumes were not regarded as appropriate for people who were nationals of Japan. Local dialects were not comprehensible to the Japanese. There were elaborate class structures to be liquidated. Integration occurred in the latter part of the nineteenth and the early twentieth centuries. Transportation and some urban facilities were developed, schools established, and public sanitation extended. The Japanese system of family records, the koseki, was introduced, and gradually the births, deaths, and migrations of some portion of the Ryukyuans were recorded for legal and statistical purposes. Okinawa was included in the censuses of the years from 1920 to 1944; its vital records, its health situation, its economic activities, and its migrations were all included in the relevant statistical publications of the government of Japan. However, on any objective index it remained the most retarded of the forty-seven prefectures.

The early years of the Pacific War were not serious for the people of the Ryukyus. The youth subject to conscription were sent elsewhere for military duty, primarily into areas where the Japanese armed forces did not see action. By 1944, however, war was converging on the island of Okinawa itself. Major Japanese forces arrived in June of 1944; on October 9, 1944, the Naha area was bombed severely. Civilians were concentrated in the northern part of Okinawa Island, but the families of the men in the mobilized conscript reserves returned with the men to the south. The invasion began on April 1, 1945, the battle itself lasting for eighty-two days; formal surrender did not come until September 10, 1945. The picture was desolate indeed at the end of the battle. Civilians south of the combat zone had fled to the caves and the hills. An appreciable proportion perished in the course of military action. Deaths from starvation and disease were widespread among the evacuees as among those caught in or south of the combat zone. Practically all the buildings on the island were destroyed; large amounts of once arable land were covered with the debris of battle. As hostilities ended, the survivors were brought into camps and assisted as rapidly as was possible to return to where their homes had been. Military government, initially with the Navy, later under the Army, was extended over the Ryukyus, including not only Okinawa Prefecture but the Amami Islands, which had been included in Kagoshima Prefecture. Since Ryukyuans were now defined as foreigners in Japan, they were subject to repatriation from the areas of the former Empire, the Co-Prosperity Sphere, and the other prefectures of Japan. By the fall of 1950 all operational activities of military government were transferred to the United States Civil Administration of the Ryukyu Islands (USCAR). Administra-

tive and territorial questions remained controversial, however. In 1952 some small islands north of 29° North latitude were returned to Japan; on December 31, 1953, the Amami Islands were returned. The area of the Ryukyu Islands today is thus identical with the area which Japan administered as Okinawa Prefecture.

The Growth of the Population

The increasing population reported for the Ryukyu Islands in the last decade of the nineteenth century is some unknown mixture of fact and fiction. Numbers were probably growing, but the Japanese system of family records, the koseki, was being established throughout the islands. By 1903 the population with honseki (legal residence) in Okinawa Prefecture was reported as 469 thousand, the population present in the prefecture as 476 thousand. From 1903 to 1918 the records indicate a population increasing at the rate of 1.0 to 1.5 per cent per year. On October 1, 1920, when the first enumerative census was taken, there were 572 thousand people in Okinawa Prefecture. From 1920 until 1940 changes in total population were slight; in the successive intercensal periods percentage changes amounted to -2.4, 3.6, 2.6, and -3.0. Between October 1, 1940, and February 22, 1944, the civilian population increased 2.8 per cent; the number of people on the latter date was 590 thousand, only 18 thousand larger than it had been a quarter of a century before. On December 1, 1950, after war and repatriation, the population was 693 thousand, 17.4 per cent larger than it had been the year before the Battle of Okinawa. From 1950 to 1954 the compilations from the restored koseki indicate a continuing and fairly rapid growth amounting to 81 thousand, or 11.7 per cent, in a period of less than three and a half years. As of May 1, 1954, the Ryukyuan population of the area that had been Okinawa Prefecture was 774 thousand.

If we consider population by age and sex, divide the Ryukyu Islands into economic units, and consolidate time periods, we see something of the complex interplay of high growth potential, migration for employment, war dislocations, repatriation, and blockages to migration in the generation of growth. (See Table 1.) From 1920 to 1935 there was great variation among the islands, ranging from rapid increase in all age groups in the barren and isolated Miyako group to depopulation in the Amami group. Overall, however, the relatively slight changes in total populations were balances of declines in the productive ages from 15 to 59 and increases among youth and the aged. From 1935 to 1950 there was a 13.8 per cent increase in total population, with the highest increases occurring in those age groups in which before there had been the greatest decreases. The aged, who had increased 42.6 per cent in numbers between 1920 and 1935, declined 6.1 per cent between 1935 and 1950.

For the area of Okinawa Prefecture, it is possible to compare the populations enumerated at successive censuses with the populations that would have been expected without migration or the deaths of war. The populations used for 1920, 1930, and 1940 include Japanese only; the 1940 population includes armed forces whose homes were in Okinawa. The 1944 population includes civilians plus those members of the armed forces living outside military installations. The 1950 population includes only those with honseki in the Ryukyus. The assumed mortality is that for all Japan, the "normal" for the years from 1935 to 1950 being assumed to follow a straight line between the values of the life tables of 1935-1936 and 1947. The deviations of enumerated from expected populations expressed as percentages of the expected populations are given

Table 1. The population of the Ryukyu Islands, 1920-1950
Per cent change by age and sex, major divisions

Areas /a	Total	Under 15	15-19	20-24	25-59	60+
			1920-1935			
Total Ryukyus	1.5	5.7	-9.0	-11.7	-4.8	42.6
Amami gunto	-4.3	-5.2	-16.8	-19.3	-5.3	43.5
Okinawa Prefecture	3.7	10.1	-6.4	-9.0	-4.6	42.2
Okinawa gunto	1.3	7.2	-8.6	-10.9	-7.1	40.2
Miyako gunto	23.8	29.3	16.7	12.4	17.5	60.3
Yaeyama gunto	6.4	19.8	-10.6	-19.0	-1.8	56.1
			1935-1950			
Total Ryukyus	13.8	11.8	45.0	50.7	6.8	-6.1
Amami gunto	4.3	-6.4	37.8	45.0	-0.6	15.2
Okinawa Prefecture	17.0	18.2	47.2	52.4	9.4	-13.1
Okinawa gunto	17.0	18.8	47.5	55.6	9.4	-15.4
Miyako gunto	13.0	10.3	35.8	26.3	8.0	8.8
Yaeyama gunto	25.1	26.0	67.6	65.8	12.8	-3.7

Source of data: Titles 2, IV. A-1, Table 2; 3, II. 1, Table 3; and 9, Tables 4 and 5.

/a The gunto, the administrative divisions in the postwar years, were in major part combinations of the gun and shi of the prewar period. Amami gunto was Oshima-gun of Kagoshima Prefecture.

Table 2. Percentage deviations of enumerated populations from those expected without migration and at normal levels of mortality, by decades, 1920-1950, Okinawa Prefecture

Age	Total			Male			Female		
	1920 −30	1930 −40	1940 −50	1920 −30	1930 −40	1940 −50	1920 −30	1930 −40	1940 −50
15-59	-19.0	-22.4	2.6	-23.6	-26.1	-2.7	-14.6	-19.1	7.4
15-19	-21.2	-38.3	2.8	-19.5	-38.8	0.8	-22.9	-37.9	5.0
20-24	-32.9	-43.1	-13.6	-40.0	-46.5	-23.3	-25.8	-39.5	-3.2
25-29	-30.2	-32.2	-12.3	-39.4	-41.8	-4.8	-20.9	-22.0	29.6
30-34	-19.5	-15.8	18.1	-25.1	-20.5	6.9	-14.4	-12.1	28.2
35-39	-16.6	-6.4	-20.0	-23.5	-8.0	19.4	-10.0	-5.2	20.5
40-44	-10.4	-3.7	11.0	-15.5	-3.6	14.9	-5.7	-3.8	8.2
45-49	-6.5	-3.1	-0.4	-9.4	-2.6	1.6	-3.8	-3.5	-2.0
50-54	-3.2	-1.0	-4.5	-4.8	-0.5	-2.2	-1.7	-1.4	-6.2
55-59	-3.1	-1.4	-9.7	-5.3	-0.4	-7.8	-1.1	-2.2	-11.1

Sources of data: Populations by age. Titles 2, IV. B, No. 46; 4, IV. B, Okinawa; 6; 9, All Ryukyus minus Amami gunto. Life tables, Titles 14 and 15.

for the three decennial periods by sex in Table 2, attention being focused on those in the productive ages from 15 to 59.

The extraordinary fact of population dynamics in the years between 1920 and 1940 was the exodus. In the years from 1920 to 1930 out-migration extended upward in the age span to the late thirties and the early forties; in the decade from 1930 to 1940 out-migration was slightly greater in total proportion and more concentrated among those in the younger ages. The emigration of women was considerably less than that of men. In each decade the total population in the productive ages was only four-fifths that which would have been expected without migration.

The population aged 15 to 59 in 1950 was 2.6 per cent larger than that which would have been expected had there been neither migration, war, nor repatriation between 1940 and 1950. Men were fewer than expected, however, while women were more numerous than expected. Among men there were major deficits in the age groups of youth and elders who had been in ages marginal for military service in 1944-1945 and so permitted to remain on Okinawa Island. Among women there were deficits at ages 20 to 24 and at ages 45 to 49 and above. However, this population of 1950 was not simply one in which repatriation had compensated for out-migration; it was one in which the effects of excess mortality and net migration balances had been interrelated factors, with cumulative impacts in some age groups, balancing impacts in others.

In the analysis of the changes of the decade from 1940 to 1950, it is desirable to consider two time periods separately, the one the interval between the censuses of 1940 and 1944, the other the period between the end of the war and the census of 1950. In the years from 1940 to 1944 there was blockage of many of the usual channels of emigration for Okinawans, especially for women. There was also a withdrawal of men from the civilian population and a return migration of people aged 40 or 45 and above. Losses to the civilian population through emigration and absorption into the armed forces amounted to almost two-fifths for men aged 20 to 29, while there was an increase of almost one-fifth for men aged 60 and above. The percentage deviations of enumerated populations on February 2, 1944, from the populations expected without migration or withdrawals from the civilian population after October 1, 1940, were as follows:

Age	Total	Male	Female
10 and above	1.5	-5.2	7.3
10-14	3.8	3.1	4.5
14-59	-2.5	-11.7	5.5
60 and above	18.8	19.6	18.4

Between February, 1944, and the end of the war there were major movements in the civilian population, further transfers from civilian to military status, the mortality of the battle, an excess civilian mortality, and deficits of births. In the years from the end of the war to 1950 those who had remained in Okinawa Prefecture and survived the war itself were subject to the increased mortality of the early postwar years. It is impossible to disentangle the influence of these various factors in the net population change from 1944 to 1950. However, we

have data on the non-repatriate population in Okinawa Prefecture as of December 1, 1950. The non-repatriates are by definition the survivors of those who were in Okinawa Prefecture when the war ended. Hence by comparing their numbers with the population expected in Okinawa Prefecture in 1950 without migration or war deaths we have a crude measure of the combined influences of exodus and evacuation, civilian and military, and of war mortality. It should be noted that the non-repatriated population of Okinawa Prefecture is essentially what the population of that prefecture would have been had there been no repatriation. In Table 3 we give the deviations of the non-repatriated population from the population expected in the same area had there been neither net migration nor war mortality between 1940 and 1950. There is then added the percentage deviation of the enumerated population as of 1950 from that expected without migration or war mortality after 1940. These series of percentages indicate the contributions of repatriation not alone to the total size but to the component sex and age groups of the population.

The reports of the human tragedy of the Battle of Okinawa are corroborated in the data of the 1950 census. Losses were heavy among youth below the usual conscript age, among men in the Second and Third Conscript Reserves, among wives who had followed husbands back to the south, and among the aged. Repatriation filled much of the gap among women below age 40, but the deficits of men aged 25 to 34 indi-

Table 3. Percentage deviations of non-repatriated population and total population as of December 1, 1950, from population expected without migration and at normal levels of mortality from 1940 to 1950

Age	Non-repatriate population, Dec. 1, 1950			Enumerated population, Dec. 1, 1950		
	Total	Male	Female	Total	Male	Female
10 and above	-23.0	-31.3	-15.6	1.2	-2.2	4.2
10-14	-11.4	-11.3	-11.4	11.6	12.0	11.3
15-59	-25.2	-36.5	-14.8	2.6	-2.7	7.4
60 +	-24.9	-26.8	-23.6	-19.8	-20.9	-19.2
15-59	-25.2	-36.5	-14.8	2.6	-2.7	7.4
15-19	-15.8	-18.5	-13.1	2.8	0.8	5.0
20-24	-34.0	-44.0	-23.2	-13.6	-23.3	-3.2
25-29	-32.8	-60.2	-2.8	-12.3	-4.8	29.6
30-34	-28.5	-52.4	-7.0	18.1	6.9	28.2
35-39	-24.3	-38.7	-13.0	20.0	19.4	20.5
40-44	-23.7	-34.3	-15.9	11.0	14.9	8.2
45-49	-24.7	-31.1	-19.9	-0.4	1.6	-2.0
50-54	-20.0	-23.2	-17.5	-4.5	-2.2	-6.2
55-59	-20.4	-22.4	-19.0	-9.7	-7.8	-11.1

Sources of data: Population by age, see Table 1. Life tables, see Table 2. Non-repatriate population, Title 9, by subtraction of data in Tables 4 and 21 of that source.

cate that there had been heavy losses among the men who were in the armed forces of Japan. In overall numerical terms, however, the population aged 10 and above in 1950 differed little from the population that would have been expected without migration or war.

Migrants and Repatriates

The emigration from the Ryukyus was the expected reaction of an economically poor and culturally retarded people who had come within the orbit of an industrializing power. Initially people were recruited under contract, but major portions of those who went remained away; others followed their relatives and neighbors out into the larger and generally strange world. The numerically significant movements were not the heavily subsidized and closely managed migrations to remote wildernesses but those to the great cities of Japan itself and to the Japanese ethnic frontier in the Micronesian Islands. It should be noted parenthetically that in the analysis of the migrations prior to 1945 we shall have to consider Okinawa Prefecture, whereas in the analysis of repatriations after 1945 we shall have to consider Ryukyuans, for these are the ways in which the data of the two periods were collected and published.

As late as 1920 there was a relative balance of migration between Okinawa and the other prefectures of Japan; fewer than 10 thousand Okinawan people lived elsewhere in Japan. By 1930, however, Okinawans living outside their home prefecture had increased to 43 thousand. The ratio of Okinawan-born outside Okinawa to Okinawan-born within the prefecture was 8.1 per 100 for men, 6.2 for women. This migration within Japan was industrial and urban in destination and in the characteristics of the out-migrants. Three-fourths of all the Okinawan-born living elsewhere in Japan were enumerated in the seven industrial prefectures; two-thirds were in the Tokyo-Yokohama and the Osaka-Kobe districts. The concentration of youth among the migrants maximized the services of the migration in the reduction of pressure on the labor market and subsistence opportunities in Okinawa. Net migration per 100 resident population was as follows:

Age	Males	Females
Total	-7.0	-5.4
0-9	-0.7	-0.7
10-14	-1.9	-2.8
15-19	-10.1	-23.4
20-24	-30.7	-20.5
25-29	-28.9	-12.7
30-39	-15.8	-5.5
40-49	-3.3	-0.7
50-59	0.3	0.3
60-69	0.6	0.2
70-79	0.7	0.3
80 plus	0.1	0.6

For 1940 there is no information on the Okinawan-born population living elsewhere in Japan, but there is material on people with honseki in Okinawa. They numbered 565 thousand in Okinawa Prefecture itself, 88 thousand outside it. The concentration was even more decisively industrial than that of the Okinawan-born in 1930. There were 42 thousand Okinawans in the Osaka area, 11 thousand in the Kobe area.

The 88 thousand Okinawans living elsewhere in Japan in 1940 were only a portion of the total exodus from the islands. There were 57 thousand persons with honseki in Okinawa living in areas outside the Empire and Manchoukuo. Numbers of persons with honseki in Okinawa and numbers born in Okinawa for selected areas were as follows, the data referring to the year 1940 unless otherwise specified:

Area	Honseki in Okinawa	Born in Okinawa
Total	57,283	32,405
Asia	13,031	9,137
China	883	848
Philippines	9,899	6,265
North America	14,211	6,882
United States	854	443
Hawaii	13,146	6,342
Latin America	30,039	16,384
Brazil	16,287	673
Peru (1938)	8,100	---
Argentina (1938)	2,522	---

The Japanese Empire itself offered few opportunities to Okinawans. There was some movement from the Yaeyama Islands to nearby Taiwan, but only in the sugar-producing islands of Micronesia was there any major need for uneducated and unskilled Japanese labor. It was Okinawans who furnished the laborers for Nanyo gunto, Japan's venture in tropical colonization and development. No series on Okinawans in the Empire is available for the year 1940. In 1945, however, civilian Okinawans numbered as follows:

Area	Number with honseki in Okinawa
Total	32,862
Nanyo gunto	25,892
Taiwan	4,841
Manchoukuo	1,966
Korea	138
Karafuto	25

Thus our information on Okinawans abroad as civilians indicates that as of October 1, 1940, they numbered 88 thousand in the other prefectures of Japan and 57 thousand outside the Japanese Empire and Manchoukuo; that as of 1945 they numbered 33 thousand in the colonies and Manchoukuo. As of March 18, 1946, there were 201 thousand "Ryukuans" as then defined in Japan, but these included people from the Amami Islands of Kagoshima Prefecture as well as Okinawa Prefecture. As of April 1, 1949, an Operations Report of SCAP and the Far East Command reported 226 thousand Ryukyuans as repatriated, including 180 thousand from Japan and 45 thousand from other areas. Of these latter, 26 thousand were from Pacific Ocean Areas, including the Philippines and Nanyo gunto, while 17 thousand were from Taiwan. As of December 1, 1950, 177 thousand "repatriates" were enumerated in the Ryukyus, and of these 36 thousand were in the Amami Islands, 141 thousand in the islands that had been Okinawa Prefecture. If allowances are made for the movements after 1940, the heavy mortality of the early postwar years, and some return migration to Japan, these figures are reasonably consistent with those on Okinawans abroad in 1940.

There are no data that permit precise reconstruction of the past movements of the Ryukyuan peoples; such data would not contribute greatly to our knowledge even if available. The broad facts are clear. Okinawans migrated outside their islands in numbers sufficient to permit the continuation of a precariously balanced and largely subsistence economy within the islands. The removal of the migrants lessened population and labor force; emigrant remittances permitted the families and the island economy to achieve generally increasing levels of living. When the war ended major numbers of those Ryukyuans who had the opportunity of choice stayed "abroad." The Middle and South American groups remained largely intact; few individuals in Hawaii chose repatriation. And in Japan itself on October 1, 1950, there were 61 thousand people with honseki in the Ryukyus. The major concentration was in the Osaka-Kobe area, with a secondary concentration in the Tokyo-Yokohama area. In fact, it is probable that there were as many Ryukyuans outside the Ryukyus in 1950 as there had been in 1930. For the Ryukyuan population to have continued in reasonably satisfactory adjustment to its stable economy and its limited resources, however, emigration would have had to continue indefinitely at the rate at which it was progressing in the years from 1920 to 1940. The alternative approach to equilibrium would have involved a decline in fertility so that numbers could be maintained relatively unchanging at the lowered levels of general mortality and the lessened frequency and intensity of catastrophe that characterized the modern era. The improbability of such a decline in fertility becomes apparent on even cursory survey of economy, society, and population in the years from 1920 to the present.

Structure

In the years before the war, life in the Ryukyus seemed to reflect a delicate ecological balance between people and means of livelihood within largely self-contained village communities. The departure of some of the sons and daughters permitted life to continue in the ancient ways for those who remained. In 1920, 98 per cent of the people in Okinawa Prefecture had been born there, 85 per cent of them in the same commune in which they were living. There was no village exogamy to take the daughters into neighboring communes when they married; there were few jobs in the island cities to lure boys and girls away from the land and its associated activities. The gentry and the people who served them in the ancient capital of Shuri were even less mobile than

the peasants; 91 per cent of all those in the city in 1920 had been born there. There was some expansion of economic opportunities in Naha, but even here almost two-thirds of the people were native-born. No increase in mobility is apparent in the data of the census of 1930. Only in Yaeyama where there were areas of unutilized land were there many strangers — and even here four people in each five were born within the minor civil division of their enumeration.

In the villages all people labored and most of them reported themselves as gainfully occupied. The predominant occupation was agriculture, with some increments in forestry and fishing and smatterings of the other labor groups necessary to maintain a localized economy. In so far as there was a change between 1920 and 1940 it was toward an increasing dependence on agriculture, forestry, and fishing as sources of livelihood and income. The structure of the gainfully occupied population in 1930 may be taken as representative of the traditional society. The following figures are percentages of the gainfully occupied in the specific industrial categories:

Area	Agriculture and Forestry	Fishing	Manufacturing	Commerce
Amami gunto				
Male	74.6	4.7	7.8	5.1
Female	68.1	0.1	27.0	2.8
Okinawa gunto				
Naha-shi				
Male	12.1	4.0	29.5	24.9
Female	2.6	0.0	32.9	48.7
Shuri-shi				
Male	54.9	0.2	21.0	9.0
Female	9.0	0.0	62.4	20.9
Shimajiri-gun				
Male	78.0	5.7	7.2	2.6
Female	68.6	0.0	19.6	8.2
Nakagami-gun				
Male	89.9	1.0	3.3	2.2
Female	82.1	0.0	12.3	3.6
Kunigami-gun				
Male	85.6	4.3	2.7	2.6
Female	91.7	0.0	2.1	3.6
Miyako gunto				
Male	81.6	5.9	4.9	4.0
Female	76.9	0.0	16.8	3.6
Yaeyama gunto				
Male	63.4	14.8	5.7	4.1
Female	70.8	0.3	5.7	14.6

There were regional differences in economic structure. The center for government, distribution, and commerce was in the central part of Okinawa Island; textiles were made by the women in Miyako; men fished in Yaeyama. However, the shi and the machi were rural towns if not indeed agricultural areas; even Naha had more than one-tenth of its gainfully occupied men in agriculture.

The persistence of the ancient agrarian order of the island cultures is particularly apparent in the extent and the type of the participation of women in economic activities. The pattern is strikingly different from that in the central and northern regions of Japan, though quite similar to that in Kagoshima Prefecture. The proportion of women gainfully occupied was far higher in Okinawa and Kagoshima than it was even in the agricultural prefectures of the Tohoku region of northeastern Japan. If Okinawan women are contrasted with those of Kagoshima, the proportions gainfully occupied are considerably higher before marriage, considerably lower after marriage. Contrary to the situation elsewhere in Japan, the proportion of women working declined consistently with advancing age regardless of the changing burden of childbearing and household duties in the life cycle. In the Ryukyus, as elsewhere in Japan, the utilization of the labor of married women was highest in agriculture. However, the barriers to the participation of women in non-agricultural activities after marriage do not seem to have been as great as they were in the more northerly areas of Japan.

The greatest force of change introduced into the southern islands by Japan was the system of compulsory education for boys and girls alike through six years, combined with increasing facilities for middle school education in the islands and university education in Japan. The relations between age, sex, and literacy in the population in the year 1950 illustrate the magnitude of the educational transformation that had occurred in the period since major Japanese developmental activities began in the years from 1895 to 1905.

	Per cent illiterate, 1950	
Age	Male	Female
15-19	7.0	6.4
20-24	4.3	6.0
25-29	4.9	8.8
30-34	6.4	14.1
35-39	10.1	19.5
40-44	12.4	31.7
45-49	16.3	44.0
50-54	25.7	57.5
55-59	39.3	74.8
60-64	49.1	87.6
65 and above	73.5	96.0

The predominant education among adults below age 50 was that of the six-year elementary school. Attendance at middle school was far more limited than in other regions of Japan, in part because of the late-

ness of the integration of the islands into Japanese life, in part because of the combination of geographical distances and economic retardation. It should be noted, however, that two to three per cent of the men had attended school the number of years that would indicate some university training. The picture of the evolution of school attendance and of its continued limitations into the present period are apparent in the following selected data on highest grade of school attended by those aged 25 and above in 1950.

Sex and Age	Per cent attending specified years, 1950				
	0-1	1-5	6-10	11-13	14 +
Males					
25-29	1.4	3.7	75.9	16.3	2.8
40-44	5.4	8.2	77.4	6.8	2.3
65 and above	65.7	20.6	12.3	1.2	0.2
Females					
25-29	2.3	5.3	85.3	6.7	0.3
40-44	13.8	14.2	68.9	2.9	0.1
65 and above	94.6	3.8	1.5	0.1	0.0

The demographic structure was that appropriate to the social and economic conditions of the islands, but modified by the major dislocations in sex and age composition produced by continuing and heavy out-migration selective of males and of youth. (See Figure 1.) In Okinawa Prefecture the percentage of the population below age 15 increased gradually from 37 in 1920 to 41 in 1940. During this same period withdrawals from the productive ages and the general aging of the population resulted in increasing proportions of the aged. Persons 65 years of age and above were 4.3 per cent of the total in 1920 and 8.5 per cent in 1944. Persons in the productive span from 15 to 64 constituted 58.3 per cent of the total population in 1920, 55.1 per cent in 1930, 54.3 per cent in 1935, and 52.4 per cent in 1940. There was some "normalization" by repatriation and the healing processes of time, but at the end of the year 1953 the Ryukyuan population of the area that had been Okinawa Prefecture included 40.4 per cent of youth below age 15, 4.6 per cent of the aged 65 and above, and only 55.1 per cent in the middle years from 15 to 64. As the age pyramids indicate, there were major deviations from biological relations in the sex ratios within age groups and in the relations of successive sex and age groups to each other. The emigration of young girls left surpluses of males at ages 10 to 14 and 15 to 19. With the out-movements of men, however, women were left predominant in all ages from 20 upward. The excess at age 20 to 34 amounted to 10.2 per cent in 1920, 21.7 per cent in 1935, 22.0 per cent in 1940, and 27.1 per cent in 1950. In 1920 sex-selective migration had barely disturbed the age groups from 35 to 49; the excess of women was only 5.5 per cent. By 1935, however, the excess was 23.5 per cent; in 1950 it was 29.7 per cent. Surpluses of women increased markedly in the ages from 50 to 64 as the migration-depleted cohorts of earlier years matured to the ages where the usual mortality levels tended to create excesses of females. The precise surplus amounted to 19.2 per cent in 1920, 18.4 per cent in 1935, 25.0 per cent in 1940, and 28.6 per cent in 1950.

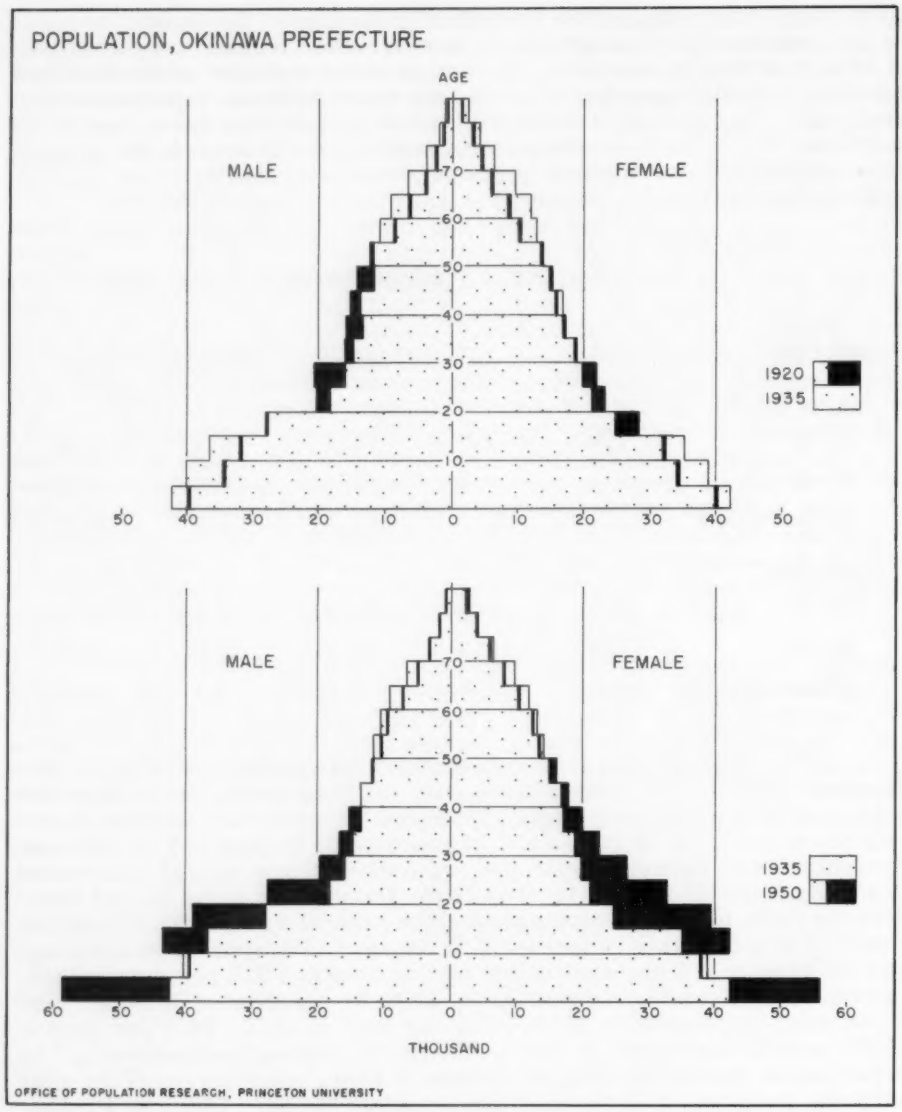


Figure 1. The population of Okinawa Prefecture by age and sex, 1920, 1935, and 1950

These are rough summary descriptions of the feminization of the population created by out-migration and the decimations of war. The more detailed influences age by age can be seen in Figure 2, where the sex ratio is pictured for quinquennial age groups in the years 1920, 1935, and 1950. It is significant to note that from the standpoint of formal structure alone the influence of the deaths and disappearances of war was similar to that of an emigration selective of men. In fact, the sex ratios by age in 1950 are a reasonable projection of those of the prewar years when migrations alone were creating imbalances.

Thus throughout the period from 1920 to 1954 the Ryukyu population was characterized by high ratios of dependent to productive groups. The social and economic burdens implicit in this demographic structure

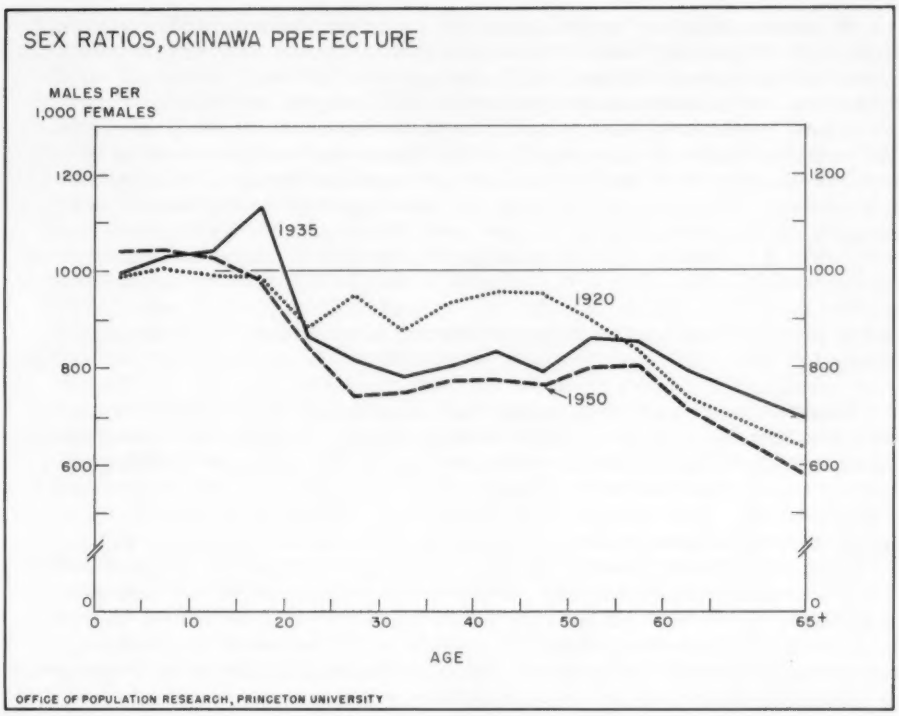


Figure 2. Sex ratios by age, Okinawa Prefecture, 1920, 1935, and 1950 (Males per 1,000 females)

were intensified by the deficits of men that characterized ever increasing segments of the span of productive life. These are the bases for a population problem; but they do not define the essential population problem of the Ryukyus. That problem was predominantly the fact of increase in the postwar period as contrasted with slight change or even decrease in the prewar years. In the 'twenties and the 'thirties there was a slow increase in numbers of youth, a sharp increase in the numbers of the aged. From 1940 to 1950, numbers of youth increased sharply while numbers of the aged declined. Rapid increase had replaced decline in the numbers of men and women who sought labor and subsistence in the islands. That increase was particularly great in the age groups from 15 to 19 and 20 to 34. Before we conclude that there had been a correlated increase in the pressure of population on land, however, it is necessary to inspect the data on changes in the size and the industrial composition of the labor force in the years from 1920 to 1950. Numbers gainfully occupied in agriculture and forestry, 1920 to 1944, and the numbers in the labor force in the same categories in 1950, were as follows:

	Numbers (in '000)		
Year	Total	Male	Female
1920	213	124	89
1930	203	114	89
1940	187	95	92
1944	183	76	107
1950	168	80	89

Migration to labor in the cities of Japan or the sugar plantations of Saipan and Tinian had been replaced by movements for employment with the United States Forces, with companies that had contracts with those Forces, with American personnel in the Ryukyus, or with the manifold service, transport, and production activities associated directly or indirectly with the development of the Base. In the last week of November, 1950, less than half the labor force of the Ryukyu Islands, excluding Amami, were in agriculture; for men aged 20 to 34 the percentage in agriculture was little more than one-third. As the more detailed data of Table 4 indicate, for Okinawa gunto, the labor opportunities that had replaced agriculture lay in direct government employment or in such associated activities as construction, manufacturing, and trade. Appreciable proportions of the younger women also labored outside agriculture.

Evaluation of the demographic significance of the postwar transformation of the labor force would be premature. There was a diversification of activities among those who grew up in the Ryukyus in the prewar years, but in that period a change of occupation involved migration from the islands. The people that remained behind were agricultural and rural, the contacts with those who had gone minimized both by physical distance and by the great gulf that separated life in the cities of Japan or in remote areas across the seas from the life of the villages. In the postwar period out-migrants from agriculture remained in the Ryukyus where processes of diffusion could carry the material and psychological influence of the developing urban culture into the most remote of the villages. A population once quite homogeneous was becoming het-

Table 4. Industrial composition of the labor force of Okinawa gunto, by sex, 1950. (Per cent)

Age	Agriculture fishing forestry mining	Construction manufacturing trade, finance transportation	Personal and domestic service	Government
		Male		
14 and above	48.7	21.4	3.7	26.1
14-19	49.9	14.9	3.2	31.8
20-34	34.6	26.1	4.2	35.1
35-49	48.7	25.3	4.2	21.6
50-64	71.1	14.4	2.8	11.6
65+	87.3	8.3	1.0	3.4
		Female		
14 and above	65.6	14.6	7.0	12.7
14-19	49.8	11.1	14.7	24.2
20-34	58.9	14.6	8.7	17.7
35-49	73.3	17.7	3.3	5.8
50-64	82.5	14.8	1.3	1.4
65+	87.7	10.5	1.1	0.5

Source of data: Title 9, Tables 11 A, 11 B, and 11 C in that source.

erogeneous. The middle region of Okinawa Island was the center of the transformation; here rural youth came not alone from adjacent areas but from the other islands. Miyako remained agricultural as in the past; Yaeyama occupied an intermediate position. In each area, as in the total population, there was a separation of economic activities, and presumably of ways of life, as among youth and aged, men and women. The elders remained in agriculture and the traditional occupations, while the youth took the new jobs. A more precise separation of functioning by sex replaced the old agricultural activities where men and women had labored together even though there was a sex differentiation in the specific tasks performed.

These questions of the industrial composition of the population and the characteristics of the people by sex and age deal with individuals classified as such; while in the old society people functioned primarily as members of families. In census enumerations there is no information on the family as such, but much as to the old society can be deduced from the data on the size and structure of households in 1920 and 1930.

The average size of ordinary households was small — 4.7 in 1920, 5.0 in 1930; the proportion of single person households was high, 8.2 per cent in 1920 and 9.3 per cent in 1930. The internal structure of the households reflected the economic pressures in the islands; proportions of the gainfully occupied among family members were high and families cared for a considerable number of other people as laborers, household helpers, or just "co-residents." It should be noted especially that the proportion of female heads is very high, especially for a Japanese culture.

Status in household	Persons per 1,000 households, 1930		
	Total	Male	Female
Total population	5,036	2,376	2,659
Heads	1,000	805	195
Other family members	3,852	1,472	2,380
Gainfully occupied	1,264	432	832
Not gainfully occupied	2,588	1,040	1,548
Employees	97	70	27
Domestics	34	1	33
Co-residents	53	28	25

We can only conjecture as to what happened to household structure in the years of war and reconstruction. It may be presumed that those family members who survived returned to reconstitute the families and households in the villages from which the members had migrated or fled. Many of the repatriates had no places waiting in the village communities; for them life in Okinawa meant establishing households in the growing urban concentrations. The movement of youth for work outside agriculture left vacated positions in village households; this had been true of the emigration of prewar days. In the postwar period, however, the new households were established within the islands, in contact with the home but removed from the kinship nexus that had been a powerful force both in economic survival and in social discipline. Moreover,

restoration in any meaningful sense was impossible for the widowed, the separated, and the orphaned.

Household structure reflects the family composition of the population; as such, it is influenced by the rate of marriage, the age at which marriage occurs, the dissolution of marriage by separation or death, the frequency of childbearing and the rate of mortality, and the age at which children leave home. The key variables from the demographic standpoint are marriage, fertility, and mortality, for on these depend basically not alone the growth of the total population but the nature and duration of the intimate relations within families and kin groups. In the Ryukyuan subcultures marriage was an affair of the family; it,

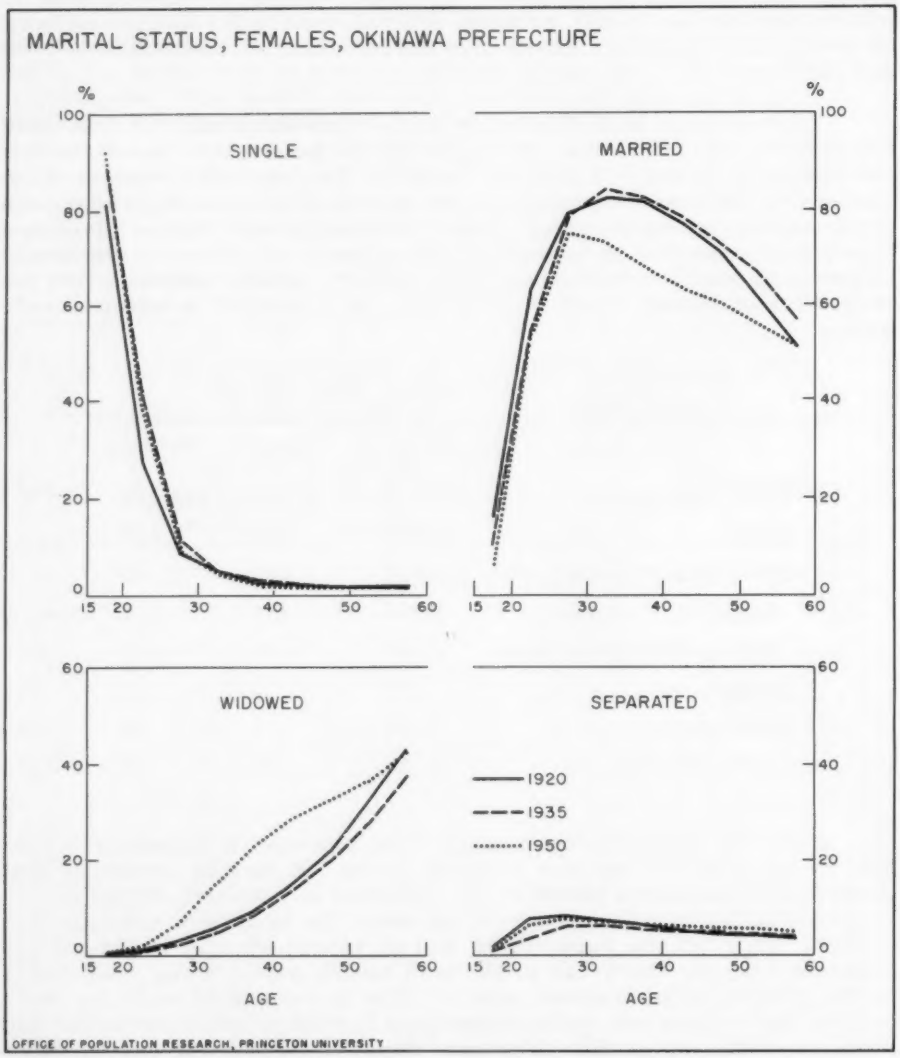


Figure 3. Marital status of women in Okinawa Prefecture by age, 1920, 1935, and 1950

as the relations between adolescents, was influenced both by Chinese forms and by institutions whose origins lay in the cultures to the south. Formal registration in the koseki was a legal overlay of the modern period; conformity to the requirements of immediate registration was still incomplete as late as 1940.

The increasing proportions single among girls in their teens and their early twenties indicate that deep changes had been occurring in the presumably stable society of the villages. (See Figure 3.) The proper age for marriage was in the late teens; in 1920, more than four-fifths of the girls aged 15 to 19 were single; more than one-fourth aged 20 to 24 and almost one-tenth at ages 25 to 29 were single. Marriage remained almost universal, but for many women it was long delayed. From 1920 to 1950 the trend in Okinawa was similar to that elsewhere in Japan — an upward movement of the age at marriage, an increasing proportion of the single at the younger ages. Similar trends toward later marriage occurred for men. It is probable that the postponement of marriage was associated with compulsory school attendance, the separate employment of girls, migration, and military conscription for men. These are measurable factors; whether more intangible cultural and psychological factors were involved is not known.

Marriage offered permanent sanctuary for only a minority of the women of the Ryukyus. Widowhood was frequent, since death rates were still rather high, and they were far higher for men than for women. Separations were also rather frequent. The widowed and the separated among men remarried, but marked deficits of men and codes of the proper made remarriage difficult for women. The consequence of delayed age at marriage, widowhood, and separation was a relatively low proportion of women married. In 1920 the maximum percentage of women married in any age group was that of 82.6 per cent at age 30 to 34; in 1950 the maximum percentage was that of 75.7 at age 25 to 29. Remarriage among the widowed and the separated men had prevented any substantial increases in the proportions of the single among men or women in the postwar years. The widowed and the separated cumulated among women, disappeared among men. Here again the effect of the war was to intensify demographic problems already present in Ryukyuan society, not to create them.

Natural Increase

It has been assumed throughout the preceding sections that the birth rate has been high and changing only slowly, that the death rate has been declining, and that the rate of population increase has been relatively high and probably increasing. That these trends and relations among vital rates have existed is demonstrable from a combination of observation, indirect evidence, and deduction from the data of the enumerative censuses. The problem is not the lack of vital statistics, for multitudes of figures on marriages, divorces, births, and deaths have been laboriously collected, carefully compiled, and published in vast detail from the early years of the twentieth century to the present. Enumerations of young children in the successive censuses indicate that birth registration has been so incomplete as to be valueless for analytical purposes. Internal inconsistencies, obvious irrationalities, and suspiciously low levels suggest that registration is just as deficient for deaths as for births. Reported numbers of births and infant deaths yield the following infant mortality rates:

Years	Japan	Kagoshima	Okinawa
1919-1920	169	105	79
1929-1930	133	97	60
1939-1940	98	82	46

The expectations of life at birth from Professor Mizushima's prefectural life tables contrasted with those for all Japan raise equally serious questions as to the completeness of the reporting of deaths at later ages.

Period	Japan	Kagoshima	Okinawa
Males			
1920-1925	42.1	45.6	46.3
1925-1930	44.8	47.2	46.0
1930-1935	---	47.9	47.2
1935-1936	46.9	---	---
Females			
1920-1925	43.2	47.7	50.5
1925-1930	46.5	50.1	50.5
1930-1935	---	51.2	51.8
1935-1936	49.6	---	---

The pattern of mortality by sex in Okinawa Prefecture differed greatly from that in most other regions of Japan. The childhood mortality was only a fraction of that in other agricultural prefectures. At ages 12 and 17 the mortality of males was above that of females; at age 22 and all later years, the mortality of females was considerably lower than that of males. Perhaps the characteristic patterns of an excess female mortality in the majority of the Japanese areas but an excess male mortality in Okinawa reflect the higher status of women and their different economic role in Ryukyuan culture. Perhaps, on the other hand, there are systematic biases operating to secure a more complete reporting of the deaths of men.

Estimates of the "true" level of mortality in 1920 and the rates of decline thereafter would have to involve so many assumptions that their value would be slight. Estimates of approximate levels, differentials, and trends in fertility can be made on a more objective basis. Children aged 0 seem to have been enumerated with reasonable completeness; in so far as there was under-enumeration it would result in an under-estimate of births. Since babies are nursed by their mothers, they are present in the same areas as the mothers; estimates of fertility made on the basis of numbers of enumerated babies below age one are not vitiated by migration. Estimates of the infant death rate are more difficult; we have assumed that infant deaths per 1,000 live births were 200 in 1920, 150 in 1930 and 1935, and 75 in 1950. The estimated birth rates in the various areas for 1920, 1930, 1935, and 1950 are given here.

Area	Estimated birth rates 1920	1930	1935	1950
Amami gunto	46.7	36.1	34.1	34.4
Okinawa Prefecture	38.1	36.5	36.4	44.9
Okinawa gunto	37.1	35.4	35.5	44.9
Naha-shi	29.1	28.7	28.0	45.3
Shuri-shi	30.7	30.6	30.2	43.0
Shimajiri-gun	39.9	37.6	37.2	[ ]
Nakagami-gun	37.9	37.1	38.3	44.9
Kunigami-gun	37.9	35.2	35.2	[ ]
Miyako gunto	48.0	43.5	42.2	46.5
Yaeyama gunto	36.4	37.6	37.5	42.4

That the birth rates for the years from 1920 to 1950 are reasonable for the populations concerned is attested by a number of facts. The Japanese population in Nanyo gunto, a group predominantly of Okinawan origin, had recorded birth rates of 45 or more per 1,000 total population year after year. In the Ryukyus themselves delayed marriage and the deficits of men would be expected to reduce birth rates below the levels in the almost ideal conditions of life in the Micronesian Islands. The rates in the year 1950 seem high, but the age distributions suggest that a postwar baby boom may have been a major factor in the births of that year. The evidence as to decline in the prewar years is questionable in view of the absence of standardization for age and marital status. There is strong presumptive evidence of area differences, however, with high fertility in Miyako, lower fertility in Yaeyama, and intermediate fertility in Okinawa gunto.

The recorded births in recent years yield crude rates of 37.7 in 1951, 34.8 in 1952, and 32.4 in 1953. In 1952 the rates were 35.0 for Okinawa gunto, 32.6 for Miyako gunto, and 38.4 for Yaeyama gunto. Since crude death rates for the same year were 7.3 for Okinawa gunto, 8.7 for Miyako gunto, and 7.5 for Yaeyama gunto, there is presumptive evidence that there was also major under-reporting of births.

In the 1950 census there was a question on number of children ever born. Comparative analysis of these materials for the Ryukyus and those from the 1950 census for Japan indicate that fertility was slightly lower in the Ryukyus than in either the agricultural prefectures or the gun of Japan, substantially lower than in the gun of the Tohoku region. If we limit the comparison between the Ryukyus and the gun of Japan to women living in first marriages of durations of 20 to 24, 25 to 29, or 30 and more years' duration, we find the distribution of women by number of children ever born quite similar except that there is a greater frequency of women with 10 or more children in the gun of Japan. In general, data that indicate for women aged 50 and above 5 children per ever-married woman, 5.5 children per presently married woman, 4.5 children per widowed and separated woman, and 5.5 children per mother, are quite consistent with the birth rates estimated earlier on the basis of the census age enumerations.

There is further suggestive evidence in the 1950 data on children ever born to women of completed fertility. Since fertility for any given

marital status or marital duration class tended to be somewhat lower in the Ryukyus than in the gun of Japan, and since there was considerable limitation of one type or another among the women in the gun of Japan, it follows that there may be limitation practices in the folk culture of the Ryukyus. The fact that fertility is higher in some other areas than it is in the Ryukyus does nothing to alter the fact that fertility in the Ryukyus has been and is sufficiently high to produce rapid rates of natural increase as long as death rates remain at the levels of recent decades. With death rates at their present levels, that increase may be rapid indeed, even though it may not have reached the rates of 2.5 to 2.9 per cent per year indicated in the current vital statistics.

Conclusions

Materials currently available permit little other than speculation concerning the balance of births and deaths and the rates of growth in the premodern population of the Ryukyu Islands. If we can generalize from historical accounts and the reports of visitors, people have long been numerous in relation to economic resources. Concepts of natural adjustments or ecological balances are not particularly relevant, though, for stability was precluded by episodic catastrophe. The movements of people were relatively slight, but ideas and techniques came in from China. Central planning and guidance in agricultural practice contributed to the food and other necessities produced in the village communities. At some eras there were jobs in urban centers so that youth left the country; in other eras there must have been retreat from the complex society of the cities. Theories that people increased to the limits of their subsistence and were then decimated by interferences with the regularity of food production are tempting, especially as one learns of the adoption of the sweet potato, the dependence on it, and the famines when the crop failed. All this time, though, sugar cane was grown on the precious land and exported to meet the levy of Satsuma. There are indications in the cultural annals that Japanese practices of population limitation may have been indigenous in or diffused to the southern islands. The registration data and the burial practices alike suggest that the life and death of the infant were matters for personal and familial rather than communal concern. Growth potential was high once the hazards were reduced, however, for the restrictions sanctioned by the mores pertained to marginal situations or to conditions of severe pressure. The central values were familial, whether they were the common values of the hearths and the priestesses who attended them or the imported values of Confucian culture. In the Micronesian Islands, where families were united and life was good, birth rates were considerably above 40 per 1,000 population.

In the long period of Satsuma domination, the people of the Ryukyu Islands were protected against the rigid unification policies of the Tokugawa system. Much of the ancient culture survived until the late nineteenth and early twentieth centuries, and then the people were integrated into an industrializing economy and an expanding imperial state. The conditioning of the modern transformation by the indigenous culture merits incisive analysis. The Ryukyus seem to deviate from Kagoshima and the other Kyushu prefectures in ways that are only further extensions of the ways in which these southwestern prefectures of Japan differ from the central and northeastern prefectures. The evidence supporting this suggestion is manifold and diverse. The economic role of women, the relation of gainful activity to marital status, the household structure, the characteristics of the urban populations, the sex differences in mortality, the relations of fertility to age and present marital status — all

these appear to differ as between the culture of the Ryukyus and the modal culture of Japan.

The rapid increase that might have occurred in the population of the Ryukyus in the prewar decades was blunted and at times eliminated by migration away from the native lands and the village society. This is the usual adjustment of a poor and predominantly agricultural area that is part of a rapidly industrializing country; but there are specific factors in the Ryukyu adjustment that merit further study. The "internal" migrants to Japan, as the "international" migrants to Taiwan or Nanyo gunto, moved across the seas and thereby increased both physical and psychological separations between sedentary and mobile people. Those who stayed at home preserved a remarkably stable life; those who moved went into divergent social and economic situations in diverse regions. Repatriation brought the former migrants home; they and their previously non-mobile relatives became participants in the internal movements and the occupational realignments that accompanied the building and functioning of the Base.

We have spoken of indigenous cultures and of adjustments. Transformations within the islands and migrations outside them have not been the uncontrolled and "natural" responses of a simple people to the opportunities and pressures of a larger society. Rather, governments whose seats were far removed from the islands have felt strong responsibilities to alleviate the pressures of population on resources. As early as 1894 the Japanese government recognized that Okinawa was becoming overcrowded and adopted three major programs. The first was land reclamation, reforestation, and the improvement of yields on lands already cultivated. The second was the colonization of Yaeyama. The third was emigration to other countries. There was agricultural improvement in the older areas, settlement in Yaeyama, and emigration, but when the United States Civil Administration of the Ryukyus assessed the population-resources balance more than half a century later the basic problem was the same. There were too many people for the limited lands, and natural increase was too great. Resolution had occurred in the prewar years through the absorption of migrants in the expanding Japanese economy, whether the Home Islands or the Empire. In the postwar years a major portion of the surviving emigrants had been returned. A Japanese economy which could not absorb its own agricultural surplus efficiently had few opportunities for marginal laborers from the Ryukyus; and the former Empire areas were barred. In addition, the United States Forces were occupying 45 thousand acres of land for military installations, one-fifth of all the arable lands of Okinawa Island. United States policy was not stated formally in its totality, but its components have been stated as such. The first was land reclamation and the increase of yields on lands already cultivated. The second was resettlement in Yaeyama. The third was the encouragement of whatever native industries were feasible. The fourth was emigration. The United States, like Japan, pursued activities that reduced death rates but ignored the possibilities of stimulated reductions in birth rates. High fertility was accepted as an immutable factor in the population-resources relationship.

Total evaluation of policies is not within the province of the student of population, but demographic facts are relevant to the analysis of policies. Furthermore, the search for solutions to population problems is a legitimate field for demographic research. The Ryukyus offer data for both types of research. The facts are simple. In the Japanese period continuing exodus prevented a worsening of the economic relationships among people who remained within the islands, but the

"solution" thus achieved required continuing emigration. The liquidation of Imperial migration through repatriation left the Ryukyus in a demographic situation somewhat similar to that which would have existed had Imperial migration or movement to Japan never occurred. There is a backlog of "surplus" population in addition to current increase. The results of positive action programs have been quite inadequate. There are agricultural developments in Yaeyama, but in 1953 and 1954 only 2,500 persons were resettled. There is a plan for emigration to Bolivia, the Bolivian Government giving land, USCAR furnishing transportation, and U.S. funds in Bolivia being used to provide means of access and utilities. In the first year and a half of the program 400 Ryukyuans migrated. There is great mobility, but it is not to exile in far Yaeyama or to uncleared lands in remote Bolivia. The Ryukyuans, as all Japanese, leave agriculture and the villages for industrial areas and the cities; the preeminent destinations are the sprawling Naha region and the Base in Okinawa, the cities of Osaka and Kobe in Japan. As early as 1950 only two-fifths of all men aged 20 to 34 who were in the labor force were in agriculture, forestry, fishing, or mining; three-fifths were in non-agricultural industries. This is reprieve rather than solution, however, for employment related to or dependent on the United States Base is not indefinitely expansible.

The formulation of theoretical population policy for the Ryukyu Islands is simple. Sharply reduced death rates insure family continuity and population replacement with small families. Limited material resources, low incomes, and communal cohesion in local areas create a milieu in which large families and poverty are associated in a self-perpetuating cycle. Given the absence of increase, the welfare of individual families could be advanced and more adequate facilities could be provided by the state. This much has been admitted implicitly by all who decry the population pressure in the islands. The temporary solution, as we have said earlier, was to export the people who were excessive in the local situation. The permanent solution requires reduced fertility. This reduction has not come automatically with elementary education, communication facilities, agricultural extension, or the other peripheral influences of the industrializing state. It may be in process now with the "urbanization" of the concentration for employment with the Base. There may be some diffusion of the practices of abortion and contraception from the adjacent Kyushu prefectures of Japan, but the United States Civil Administration of the Ryukyus has not adopted the population laws and activities of the present government of Japan. Abortion and sterilization are not legalized, and the public health services are not working to train medical personnel and educate people for the adoption of contraception. Okinawa alone among the prefectures of prewar Japan seems to retain a birth rate near the high level that existed when the industrial structure, the Empire, and the Imperial armies were intact, when all second and third sons could migrate to industrial areas within Japan, the Empire, or the Co-Prosperity Sphere.

The formulation of operating policy to reduce fertility was postponed throughout the period when the Ryukyus were being integrated into Japan. Difficult problems of values and means were involved. Since crisis was avoided by exodus from the islands, awkward questions as to the failure of government economic policies to lessen population pressure could be evaded. The basic maladjustment between the rate of increase of the people and the means available for their support remained the same in 1950 as it had been in 1900, the major differences lying in the vastly increased numbers of the people who were involved and the greater difficulties of initiating action programs. Today there are economic complications in the autonomous status of the Ryukyus, demo-

graphic difficulties in migration to Japan, and political problems in the adoption of positive policies by an administration external to the islands. In the absence of such policies, however, the anticipated demographic future is that of continuing growth and continuing search for temporary palliatives that remove people from the area but leave the growth potential intact.

Irene B. Taeuber

SOURCES AND REFERENCES

The major sources for this analysis were the registration compilations, censuses and vital statistics of Japan, 1898-1944; the census of 1950; and the current registration and survey data collected by the U.S. Civil Administration of the Ryukyus and the Government of the Ryukyu Islands. The historical resumé relies heavily on Kerr's Ryukyu. Kingdom and Province before 1945. (Title 36). Figures on Okinawans in Peru and Argentina, 1938, and the Empire, 1945, are from Tigner's The Okinawans in Latin America. (Title 38). The life tables for Okinawa were computed by Professor Mizushima and his colleagues. (Titles 46-50). All other data were secured from the relevant primary sources; the magnitude of the detailed citations that would have been necessary precluded precise documentation within the article.

Censuses, Vital Statistics, Migration

Registrations and Censuses

1. Nihon. Naikaku tokei-kyoku. Bureau de la statistique imperial. Nihon teikoku jinko seitai tokei. Etat de la population de l'Empire du Japon au 31 décembre 1898. Tokyo, 1901. Bilingual.
   Compilations were also issued for the years 1903, 1908, 1913, and 1918.

2. Nihon. Naikaku tokei-kyoku. [Japan. Cabinet Bureau of Statistics.] Taisho ku'nen kokusei chosa hokoku. [Reports of the 1920 census.] Tokyo, 1925-1933.
   Vol. IV. A-1. Zenkoku no bu. [Section on all Japan.] Jinko, taisei, shusseichi, nenrei, haigu kankei, kokuseki, minseki, shotai. [Population, sex, place of birth, age, marital status, nationality, imperial status, and households.] 1928.

   Vol. IV. B. Fu ken no bu. [Prefectural volumes.] No. 46. Okinawa. 1927. No. 45. Kagoshima. 1925.

   Vol. VII. Taisho ku'nen kokusei chosa kijutsu hen. [Descriptive volume of the 1920 census.] 1933.

3. ———————— Taisho juyo'nen kokusei chosa hokoku. [Reports of the 1925 census.] Tokyo, 1926-1934.
   Vol. II. 1. Kijutsu hen. [Descriptive volume.] 1934.

   Vol. II. 4. Fu ken hen. [Prefectural volumes.] No. 46. Okinawa. 1926. No. 45. Kagoshima. 1926.

4. ———————— Showa go'nen kokusei chosa hokoku. [Reports of the 1930 census.] Tokyo, 1934-1938.
   Vol. IV. 1. Jinko, taisei, nenrei, haigu kankei, shusseichi, minseki, kokuseki, shotai, jukyo. [Population, sex, age, marital status, place of birth, imperial status, nationality, house-

holds, and residence.] 1935.

Vol. IV. 2. Shokugyo oyobi sangyo. [Occupation and industry.] 1935.

Vol. IV. 4. Fu ken hen. [Prefectural volumes.] Okinawa. 1934. Kagoshima. 1935.

Vol. VIII. Showa go'nen kokusei chosa saishu hokokusho. [Final report of the 1930 census.] 1938.

5. ———————————— Showa ju'nen kokusei chosa hokoku. [Reports of the 1935 census.] Tokyo, 1935-1938.
Vol. II. 1. Zenkoku hen. [Section on all Japan.] 1939.

Vol. II. 2. Fu ken hen. [Prefectural volumes.] Okinawa. 1938. Kagoshima. 1936.

6. ———————————— Census of 1940. Selected tables. Microfilm copy, Library of Congress. Washington, D.C., 1946.

7. Nihon. Sori-cho, tokei-kyoku. [Japan. Prime Minister's Office. Bureau of Statistics.] Kekka hokoku tekiyo, Showa 15-nen kokusei chosa, Showa 19-nen jinko chosa, Showa 20-nen jinko chosa, Showa 21-nen jinko chosa. [Summary of results, census of 1940, and population surveys of 1944, 1945, and 1946.] Tokyo, 1949.

8. U.S. Army. Far East Command. Commander-in-Chief. General Headquarters. The Ryukyu Islands. Pre-war population and employment. Census data for 1940 and 1944. (Okinawa-ken and O-shima-gun). Tokyo, 1950. 42 pp.

9. U.S. Military Government of the Ryukyu Islands. Headquarters. Programs and Statistics Section. Population census. All Ryukyus. 1 December 1950. Book 100. No place or date of publication. ii, 50 pp.
Book 100. All Ryukyus. Books 200, 200:01-200:56. Okinawa gunto. Books 300, 300:60-300:79. Amami gunto. Books 400, 400:80-400:85. Miyako gunto. Books 500, 500:90-500:93. Yaeyama gunto. Book 600. Northern Okinawa. Book 700. Southern Okinawa. In each brochure there are twenty-one numbered tables on population by sex, nationality, age, school attendance, labor force status, industry and position in employment; occupations; living quarters; households; marital status; number of children by age and marital status; women in first marriage by duration of marriage and number of natural children; and repatriated persons by sex and residence.

10. U.S. Civil Administration of the Ryukyu Islands. Headquarters. Programs and Statistics Section. Ryukyu Island Economic Statistics. Bulletin No. 18, June-Oct., 1952. 153 pp.
"Agricultural census," pp. 97-113; "Population census of 1 December, 1950," pp. 119-149.

11. Ryukyu seifu gyosei shuseki tokei-kyoku. [Government of the Ryukyu Islands. Administrative Headquarters. Statistics Section.] Ryukyu tokei hokoku. 1950-nen kokusei chosa tokushu go. [Monthly statistics of the Ryukyu Islands. Special edition on the 1950 national census.] Vol. 2, No. 5. Naha, 1952. 132 pp.

12. Nihon. Sori-fu, tokei-kyoku. [Japan. Prime Minister's Office. Bureau of Statistics.] Amami gunto jinko chosa kekka hokoku.

Report on the population census of the Amami Islands. Tokyo, June, 1954. III, 19, 41 pp.

Vital Statistics

13. Nihon. Naikaku tokei-kyoku. [Japan. Cabinet Bureau of Statistics.] Jinko dotai tokei. [Vital statistics.] 1899-1942. Tokyo, 1903-1943.

14. ———————————— Showa juroku'nen ichi-gatsu. Dai-rokkai seimei hyo. [The sixth life table. January, 1941.] Tokyo, 1941.

15. Nihon. Kosei-sho, daijin kambo, tokei chosa-bu. [Japan. Welfare Ministry, Secretariat. Statistical Bureau.] Dai-hachikai seimei hyo. [The eighth life table.] Tokyo, 1950.

16. Ryukyu seifu, tokei-bu. [Government of the Ryukyu Islands. Statistics Section.] Ryukyu tokei hokoku. Monthly statistics of the Ryukyu Islands. Tokushu: 1952-nen shi, cho, son-sei yoran. [Special edition: Essential outline of shi, cho, and son for 1952.] Naha, 1953. 186 pp.

Migrants and Repatriation

17. Nihon. Gaimu-sho, chosa-bu. [Japan. Ministry of Foreign Affairs. Research Section.] Showa ju'nen zaigai hompojin chosa hokoku. [Report of the 1935 survey of peoples of the Japanese Empire abroad.] Tokyo, 1936.

18. ———————————— Kaigai zairyu hompojin chosa kekka hyo, Showa 15-nen. [Tables on results of research on Japanese residing overseas, 1940.] Tokyo, 1943.

19. Nihon. Hikiage engo-cho. [Japan. Repatriation and Relief Board.] Hikiage engo no kiroku. [Record of repatriation relief.] Tokyo, 1950. 185 pp.

20. Nihon. Sori-fu, tokei-kyoku. [Japan. Prime Minister's Office. Bureau of Statistics.] Hikiage shinkokusha su. Showa 25-nen kokusei chosa 10% chushutsu shukei kekka. [Number of reported repatriates. Result of 10% sample tabulation of 1950 census.] Tokyo, 1953. 11 pp.

General and Other

21. Nihon. Naikaku tokei-kyoku. [Japan. Cabinet Bureau of Statistics.] Nihon teikoku tokei nenkan. 1881-1939. [Statistical annual of the Japanese Empire.] Tokyo, 1882-1940.
Issued by Sori-fu, tokei-kyoku in 1949 and later years as Nihon tokei nenkan.

22. Nihon. Naikaku tokei-kyoku. Bureau de la statistique générale. Résumé statistique de l'Empire du Japon. 1886-1940. Tokyo, 1887-1941.

23. Okinawa Asahi shimbun-sha. [Okinawa Asani Newspapers.] Okinawa taikan. [Okinawa today.] Tokyo, Nippon tsushin-sha, 1953. 799 pp.

24. Okinawa koshinjo. [Okinawa Information Agency.] Ryukyu nenkan, 1955-nen. [Ryukyu yearbook, 1955.] Published Kyoto;distributed Naha, 1955. Sections separately paged.

25. Ryukyu seifu, tokei-bu. [Government of the Ryukyu Islands. Statistics Section.] Ryukyu tokei hokoku. Monthly Statistics of the Ryukyu Islands. Naha, 1952-.

26. U.S. Army Forces. Pacific. Commander-in-Chief. Summation of United States Military Government Activities in the Ryukyu Islands. No. 1, July-Nov., 1946 — No. 12, July-Aug., 1948.
Nos. 3-12 issued by: U.S. Army. Far East Command. Data on repatriation, births and deaths, and resettled populations carried currently.

27. U.S. Military Government of the Ryukyu Islands. Headquarters. Programs and Statistics Section. Ryukyu Statistical Bulletin. Vol 1, No. 1, Jan., 1950-.

28. U.S. Civil Administration of the Ryukyu Islands. Programs and Statistics Section. Economic Statistics. Bulletin No. 18, June-Oct., 1952. 153 pp.
The monthly data for the labor force survey of Okinawa Island, vital statistics, and migration were included in addition to the specifically economic data.

29. U.S. Civil Administration of the Ryukyu Islands. Civil Affairs Activities in the Ryukyu Islands for the period ending June 1953. Vol. I, No. 2. 236 pp.
Issued semi-annually; last issue available, Vol. II, No. 1, for the period ending 30 June 1954. 169 pp.

30. U.S. Civil Administration of the Ryukyu Islands. Programs and Statistics Section. Statistical Appendix for period ending 31 December 1952. Vol. 1, No. 1. 122 pp.
Civil Affairs Statistics of the Ryukyu Islands for period ending 31 March 1953. Vol. 1, No. 2. 99 pp.

31. U.S. Navy Department. Office of the Chief of Naval Operations. Civil Affairs Handbook. Ryukyu (Loochoo) Islands. OPNAV 13-31. Washington, 1944. xiv, 334 pp.

Scientific Investigations in the Ryukyu Islands

32. Pacific Science Board. National Research Council. Scientific Investigations in the Ryukyu Islands (SIRI), 1951-. Washington, 195-.

33. Burd, William W. Karimata, a village in the Southern Ryukyus. SIRI, Report No. 3. Washington, Pacific Science Board, National Research Council, 1952. vii, 141 pp.

34. Glacken, Clarence J. Studies of Okinawan village life. SIRI, Report No. 4. Washington, Pacific Science Board, National Research Council, 1953. ii, 382 pp.

35. Haring, Douglas G. The island of Amama Oshima in the Northern Ryukyus. SIRI, Report No. 2. Washington, Pacific Science Board, National Research Council, 1952. xiii, 85 pp.

36. Kerr, George H. Ryukyu. Kingdom and Province before 1945. SIRI Report. Washington, Pacific Science Board, National Research Council, 1953. iii, 240 pp.

Prepared as a text for translation into Japanese and use in the Ryukyus, this study makes the detailed history of the islands available in a Western language. Part I, The Chuzan Kingdom, moves from the remote past through the great days of trade, prosperity, and cultural flowering to the invasion by Satsuma in 1609. Part II concerns the period of dual subordination in the seventeenth and eighteenth centuries, the relation of the Ryukyus to Japan's opening to the West, Perry's mission and its aftermath, and the development of the Ryukyu problem after the Meiji Restoration of 1868.

37. Smith, Allan H. Final field report on anthropological research in Yaeyama. SIRI Report. Washington, Pacific Science Board, National Research Council, 1952. 40 pp.

38. Tigner, James L. The Okinawans in Latin America. (Investigation of Okinawan communities in Latin America with exploration of settlement possibilities.) SIRI, Report No. 7. Washington, Pacific Science Board, National Research Council, 1954. xx, 656 pp.

A detailed study of Okinawans in Brazil, Bolivia, Argentina, Peru, Mexico, and other areas, based on field study. The preparatory documents concerning subsidized migration from the Ryukyus to Bolivia are reproduced as an appendix to Part II. Bolivia.

Other Studies and Reports

39. Appleton, Roy E., et al. Okinawa, the last battle. U.S. Army in World War II. Historical Division, Department of the Army. Washington, 1948.

40. Bennett, Henry S. "The impact of invasion and occupation on the civilians of Okinawa." U.S. Naval Institute Proceedings 72:263-275. Feb., 1946.

41. Binkenstein, Rolf. Beiträge zu einer kulturhistorischen Bibliographie der Ryukyu (Okinawa) Inseln. Berkeley, Cal., 1954. 66 pp.

42. ——————— "Okinawa-Studien." Monumenta nipponica 3: 554-566. 1940.

43. Chamberlain, Basil Hall. "The Luchu islands and their inhabitants." Geographical Journal 5:289-319, 446-462, 534-545. 1895.

44. Inamine, Ichiro. President, Ryukyus Overseas Association. The economy and population of the Ryukyu Islands. Naha, 1953. 59 pp.

45. Iba sensei kinen ronbun shu hensan iin [Committee on the compilation of essays dedicated to Dr. Iba]. Editor. Nanto ronso. [Collected essays on the southern islands.] Naha, Okinawa Nippo-sha, 1945. 2, 3, 457 pp.

Studies of the customs and dialects, including the following:

Yanagida, Kunio. "Gyokuigen no mondai." [The problem of Gyokuigen.] Pp. 1-22.

Nobori, Shomu. "Amami Oshima no sairei to noro no sei-

ryoku." [The festivals of Amami Islands and the role of the priestesses.] Pp. 80-94.

46. Mizushima, Haruo. "Geographic variations in true increase rate of population in Japan." Archives of the Population Association of Japan. No. 1, pp. 22-29. 1952. In Japanese and English.

47. ——————— [Abridged life tables for each prefecture of Japan, 1920-1925.] Unpublished manuscript.

48. Mizushima, Haruo; Koyama, Y.; Tsurusaki, T.; and Taniguchi, Y. "Fu ken betsu seimei hyo, dai-ikkai." [The first abridged life table for each prefecture of Japan, 1926-1930.] Chosen igakkai zasshi 28(8):1136-1175. Aug., 1938.

49. Mizushima, Haruo; Hosogami, T.; and Harafuji, S. "Fu ken betsu seimei hyo, dai nikai." [The second abridged life tables of prefectures in Japan.] Chosen igakkai zasshi 29(9):1767-1803. Sept., 1939.

50. Mizushima, Haruo; Harafuji, S.; Hosogami, T.; and Koyama, Y. "Seison hi yori mitaru kenko-do no chiriteki bumpu." [Geographical distribution of the survival ratio in Japan.] Chosen igakkai zasshi 29:2137-2152. 1939.

51. Newman, Marshall T., and Eng, Ransom L. "The Ryukyu people: a biological appraisal." American Journal of Physical Anthropology 5(2):113-158. 1947.

52. ——————————————— The Ryukyu people: a cultural appraisal. Pp. 379-405 in: Smithsonian Institution. Annual report, 1947. Washington, 1948.

53. Nihon minzokugaku kyokai [Japanese Society of Ethnology]. Editor. Okinawa kenkyu, tokushu. [A survey of Ryukyuan research. Special number.] Minzokugaku kenkyu [The Japanese Journal of Ethnology] 15(2):67-239. 1950.

The following articles were included; all are in the Japanese language:

Ishida, Eiichiro. Ryukyuan studies; achievements and problems.

Kinjo, Choei. A history of Ryukyuan studies.

Suda, Akiyoshi. The physical anthropology of the Ryukyuans.

Yawata, Ichiro. Some notes on the prehistory of the Ryukyu Islands.

Higa, Shuncho. Structure of the Ryukyuan rural community.

Bibliography of Ryukyu, pp. 121-135.

54. Segawa, Kiyoko. "Okinawa no kon'in." [Marriage in Okinawa.] Minzokugaku kenkyu [The Japanese Journal of Ethnology] 13(3): 285-296. 1948.

55. Spencer, Robert S. "The Noro priestesses of Loochoo." Transactions of the Asiatic Society of Japan, 2nd Series, Vol. VIII, pp. 94-112. Dec., 1931.

56. Steiner, Paul E. "Okinawa and its people." Scientific Monthly 64(3):233-241; (4):306-312. March and April, 1947.

57. Torigoe, Kenzaburo. Ryukyu kodai shakai no kenkyu. [Study of the ancient society of Ryukyu.] Tokyo, Mikasa shobo, 1944. 216 pp.

58. Torigoe, Kenzaburo. Editor. Ryukyu sono go. [Ryukyu thereafter.] Asahi shashin bukku [Asahi pictorial book] No. 15. Tokyo, Asahi shimbun-sha, 1955. 64 pp.

59. U. S. Army. Civil Affairs and Military Government. Ryukyu Islands. Signed, Colonel King and Mr. Hauge. Washington, 1954. A summary statement of developments and present status.

Addendum

Glacken, Clarence J. The Great Loochoo. A study of Okinawan village life. Berkeley and Los Angeles, University of California Press, 1955. xv, 324 pp.
This study, just issued, is a condensation and more concise analysis of materials presented earlier in Studies in Okinawan village life. (Title 34).

NATIONAL SCIENCE FOUNDATION RESEARCH PROJECTS

Research proposals directed to the Division of Biological and Medical Sciences of the National Science Foundation will be received at any time. The proposals on research projects to begin in June or September, 1956, will be reviewed during March. These proposals should be received by the Foundation prior to February 1, 1956. Projects in the areas of anthropology, human ecology, functional archaeology, experimental social psychology, and demography are included in the Division's program.

BIBLIOGRAPHY

This bibliography is compiled principally from publications available to the editors or cited in the literature. Selection is on the basis of intrinsic merit, current interest, and paucity or richness of the literature for the various areas and problems. Coverage is less complete in peripheral fields, selection less rigid in underdeveloped areas. The major resources utilized in addition to those of the Office of Population Research are the current acquisitions of the Princeton University Library, the New York Public Library, the United Nations Headquarters Library, and the Library of the New York Academy of Medicine.

The editors acknowledge the generous cooperation of the staff of the New York Public Library, and especially that of the Economics Division, in making the numerous excellent facilities of the Library available to them. The coverage of the official publications of national governments is assisted materially by the cooperation of the Office of the Coordinator of International Statistics, Bureau of the Census.

The basis of the subject classification in this bibliography was described in the January 1955 issue of Population Index, pages 21 to 27. English translations of titles and abstracts have been made by the editors. Titles contributed by individuals other than the editors are acknowledged by placing the name of the contributor in brackets at the end of the entry. If a translation or annotation is taken from a secondary source, that source is also cited in brackets. The titles of items not seen by the editors are marked with the symbol °. The following abbreviations are used for the major bibliographic sources utilized in the preparation of this issue:

B.A.D.	- Bulletin Analytique de Documentation Politique, Economique et Sociale Contemporaine.
B.I.A.P.	- Boletim do Instituto dos Actuarios Portugueses.
B.O.	- Bibliographie de l'Océanie.
C.C.C.	- Current Caribbean Bibliography. (Caribbean Commission Central Secretariat.)
C.G.P.	- Current Geographical Publications.
C.S.	- Ciencias Sociales. (Pan American Union.)
D.E.	- Documentation Economique.
E.E.A.L.	- East European Accessions List. (U.S. Library of Congress.)
E.G.	- Economic Geography.
E.Q.	- Eugenics Quarterly.
I.A.S.I.	- Inter American Statistical Institute, Estadística and the Monthly List of Publications Received.
I.L.R.	- International Labour Review.
I.S.S.B.	- International Social Science Bulletin.
J.A.S.A.	- Journal of the American Statistical Association.
J.I.A.	- Journal of the Institute of Actuaries.
N.P.	- New Publications. (United Nations Headquarters Library.)
P.A.	- Psychological Abstracts.
P.A.I.S.	- Public Affairs Information Service.
P.C.L.	- Planning, Current Literature.
P.F.C.	- Publications of Foreign Countries. (U.S. Bureau of the Census.)
P.R.T..	- Population: Revue Trimestrielle.
R.I.	- Rivista Italiana di Economia, Demografia e Statistica.
S.B.S.V.	- Schweizerische Bibliographie für Statistik und Volkswirtschaft.
T.F.A.	- Transactions of the Faculty of Actuaries.
T.U.R.	- The Urban Reference.

The further development of the bibliography as a contribution to international demographic research requires the cooperation of scholars throughout the world. The editors welcome exchange relationships with institutions, reprints of research contributions, and citations to fugitive studies or those in non-Western languages.

A. GENERAL POPULATION STUDIES AND THEORY

4001 Alves Martins, C.M.
A new concept of human ecology. (Uma nova concepção da ecologia humana.) Lisbon, Instituto de Alta Cultura, 1952. 103 pp.
A volume dedicated to G.K. Zipf. Chapters include: Mathematic and statistical methods in ecology; Macro-ecological statistics; Macro-ecological dynamics.

4002 Alves Martins, C.M.
A sociometric approach of human ecology. Lisbon, Editorial Império, 1955. 14 pp.
Under the heading of Static macro-ecology, Martins demonstrates on double logarithmic paper a linear relationship between community size and number of communities exceeding that size. The rule, supposedly holding only for communities drawn from a single "society," is illustrated with U.S. data. Under Dynamic macro-ecology, a more general equation is advanced which makes restrictive assumptions about natural increase and mobility among communities. [R.G. Potter, Jr.]

4003 American Sociological Society.
Current sociological research, 1955. A report compiled from the Census of Research being conducted by members of the American Sociological Society. New York, American Sociological Society, New York University, Washington Square, 1955. 67 pp., processed.
A listing of the subjects of current research by members, classified by topic and by region. Among the topics are: Population; Aging and retirement; Marriage and the family; Medical sociology; Methods of research; Social change; Urban sociology and ecology.

4004 American Statistical Association.
Summaries of papers delivered at the 114th annual meeting of the...in Montreal, Sept. 10-13, 1954. Journal of the American Statistical Association 50(270):566-599. June, 1955.
Papers of demographic interest include the following:
Armstrong, C.M. Statistics and the planning of educational opportunities.
Batschelet, C.E. The development of census tracts in the United States.
Brainerd, C.P. State patterns and the speed of the labor-force shift from agricultural to non-agricultural industries in the United States, 1870-1950.
Brickell, Henry M. Census data for units of school government.
Cohen, Henry. Needed improvements in the Federal statistical programs for city planning purposes.
Ducoff, Louis J. Social and economic characteristics of the population of the United States directly dependent on agriculture. [Report of a sample collation of data from the 1950 census, on farm operator families and households.]
Eckler, A. Ross, et al. Concepts employed in labor-force measurements and uses of labor-force data.
Goldstein, Sidney. Migration and occupational mobility in a moderate-sized Pennsylvania community.
Hoffman, Morton. Needed improvements in the census from the standpoint of public housing users.
Horowitz, C. Morris. Jewish demographic research in the United States.
Kennedy, Albert J. Needed improvement in the U.S. census from the standpoint of social statistics users.
Lemieux, O.A. The development of census tract cities in Canada and the Dominion Bureau of Statistics census tract program.
Marshall, Herbert. Recent advances in government statistics. [Labor force, vital statistics, etc.]
Meier, Paul. Non-parametric estimation of survivorship.
Reiss, Albert J., Jr. Migration as it facilitates or retards occupation and employer mobility.
Stewart, Charles D. Unemployment statistics and economic policy uses.

4005 Aron, Raymond.
Asia between Malthus and Marx. (Asia entre Malthus y Marx.) Cuadernos, No. 8, Sept.-Oct., 1954. Pp. 16-27.°
With particular reference to India and Japan.

4006 Bates, Marston.
The prevalence of people. New York, Scribner, 1955. 283 pp.
"Biologist's outlook on the problem of population in relation to health and subsistence." [P.A.I.S. 41(36)]

4007 Dodd, Stuart D., and Nehnevajsa, Jirl.
Physical dimensions of social distance. Sociology and Social Research 38(5):287-292. May-June, 1954.°

4008 Fromont, Pierre.
Virtues and weaknesses of a population in expansion. (Vertus et faiblesses d'une po-

pulation en expansion.) L'Egypte Contemporaine 45(278):17-32. Oct., 1954.

General discussion, with application to the Egyptian situation. Economic consequences of the age structure and growth potential. National policies and the world problem.

4009 Gregg, Alan.
A medical aspect of the population problem. Science 121(3150):681-682. May 13, 1955.

4010 Hofstee, E.W.
The university education of the demographer. (De vorming van de demograaf.) 's Gravenhage, Vereniging voor Demografie, 1954. 22 pp., processed. With English summary.

Discussion of the scope of demography and its place among the social sciences, and of the nature of university training required by demographers.

4011 Iverus, Ivar.
An attempt to delineate the relationship between population growth, family policy and public opinion in Sweden. (Versuch einer Darstellung des Zusammenhanges zwischen Bevölkerungsentwicklung, Familienpolitik und öffentlicher Meinung in Schweden.) Helsinki, Kirjapaino O.Y. Sana, 1953. 125 pp.°

4012 Malécot, Gustave.
The genetics of population. Principles and application. (La génétique de population. Principes et application.) Population 10(2):239-262. April-June, 1955.

The first of two articles. This one deals with hypothetical models under varying assumptions about the migration and mutation of genes.

4013 Masferrer, Alberto.
The subsistence minimum and other works of a sociological nature. (El minimum vital y otras obras de carácter sociológico.) Colección los Clasicos del Istmo. Ediciones de Gobierno de Guatemala. Guatemala, C.A., 1950. lvi, 252 pp.°

4014 Pavik, Z.
"Social-economic" statistics and demography. Statisticky Obzor (Statistical Review of Czechoslovakia) 34(7/8):304-306. 1954. In Czech with Russian titles.°

4015 Pazos, F.
Demographic aspects of economic development. (Aspectos demográficos del desarrollo económico.) El Trimestre Económico (Mexico) 21(4):402-428. Oct.-Dec., 1954.

A general survey of the world population problem, analyzing present tendencies in fertility, mortality, and natural increase, the interactions of population growth and economic development, and the prospects for underdeveloped countries.

4016 Petersen, William.
John Maynard Keynes's theories of population and the concept of "optimum." Population Studies 8(3):228-246. March, 1955.

A critical history of Keynes' theoretical discussions of population and those of his critics. Bibliographical references.

4017 Scharlau, Kurt.
Population maximum and population optimum. (Bevölkerungsmaximum und Bevölkerungsoptimum.) Erdkunde 9(1):54-59. Feb., 1955.°

4018 Smith, Robert S.
Spanish population thought before Malthus. Pp. 231-257 in: Hughes, H. Stuart, et al., editors. Teachers of history: essays in honor of Lawrence Bradford Packard. Ithaca, Cornell University Press, 1954. 372 pp.

A survey of writings in Spain, 1500-1800, on the size and quality of the population.

4019 Spengler, J.J.
Marshall on the population question [Part I]. Population Studies 8(3):264-287. March, 1955.

Survey of the views of J.S. Mill, Nassau Senior, and other predecessors and contemporaries of Alfred Marshall, with particular attention to his treatment of the laws of returns and capital formation.

4020 Spiegelman, Mortimer.
Introduction to demography. Society of Actuaries' Textbook. Chicago, The Society of Actuaries, 1955. xxii, 310 pp.

This book was prepared for a particular purpose, to "introduce students who are preparing for the examinations of the Society of Actuaries to the methods of demography." As the list of subjects treated will suggest, however, it may have a wider application as a text or reference book. After a brief introduction, there is a chapter describing the nature of census and registration data, with special reference to the United States and Canada. This is followed by a treatment of errors of the sorts important for actuarial work. A chapter defines and discusses various common ways of measuring mortality, another explains briefly the structure of life tables, and another mentions several procedures for projecting mortality patterns into the future.

Six chapters are devoted to discussion and application of actuarial procedures to the following subjects in demography: mor-

bidity; family formation, composition, and dissolution; fertility and reproduction; distribution of population; the working population; population estimates and projections. Each chapter contains numerical illustrations. Paragraphs are numbered, and the appendix contains a section (pp. 258-292) of references, cited from the numbered paragraphs in lieu of footnotes. [G.W. Barclay]

4021 Stern, Curt.
Qualitative aspects of the population problem. Science 121(3150):683-686. May 13, 1955.

4022 Tomasevitch, Jozo.
Peasants, politics, and economic change in Yugoslavia. Stanford, Stanford University Press; London, Geoffrey Cumberlege and Oxford University Press, 1955. xii, 744 pp.
Chapters include: The increase in population [before 1914]; The development of population between the two world wars; Agricultural overpopulation; Adjustments to and remedies for agricultural overpopulation. Extensive bibliography.

4023 United Nations. Department of Economic and Social Affairs. Population Division.
Population Bulletin of the United Nations, No. 4. New York, 1954 [i.e.1955]. ST/SOA/Ser.N/4. 15 December, 1954. Sales No. 1955.XIII.1. iv, 40 pp.
Contents include:
Gaps in existing knowledge of the relationships between population trends and economic and social conditions. Report of a committee of experts appointed by the Secretary-General of the United Nations. Pp. 1-7.
Fertility according to size of family: application to Australia. By Louis Henry. Pp. 8-20.
Differential fertility in Ceylon. By Earl Huyck. Pp. 21-29.
The cause of the aging of populations: declining mortality or declining fertility? Article prepared by the Population Division of the United Nations. Pp. 30-38.
Current items. Pp. 39, 40.

4024 United Nations. Department of Economic and Social Affairs. Population Division.
Population growth and the standard of living in under-developed countries. Sales No. 1954.XIII.7. New York, 1954. 9 pp.
"This report is intended to present briefly the outstanding facts in The determinants and consequences of population trends, so far as they relate to the problems of economic and social development of under-developed countries...." See 20(3):Title 1117.

4025 United Nations. Economic and Social Council.
International definition and measurement of standards and levels of living. A report prepared by Sir Andrew Davidson. E/CN.5/302/Add.3. May 4, 1955. 18 pp., processed.
Discusses the worth of mortality rates as indicators of public health.

4026 Villard, Henry H.
Some notes on population and living levels. The Review of Economics and Statistics 37(2):189-195. May, 1955.
The relation of growth in numbers to growth in income. The role of resources. The significance of the optimum. Comments on theoretical models.

4027 Winkler, Wilhelm.
An essay on irregular influences of the age structure of a population. (Aufsätze. Unregelmässige Einflüsse auf den Altersaufbau einer Bevölkerung.) Statistische Vierteljahresschrift 7(3/4):127-138. 1954.
Basic conceptions and sources of data. The cases of Austria, 1934 and 1951; Germany, 1950; Great Britain, 1951; France, 1946; Italy, 1951. Quantitative estimates of the effects of irregular influences, particularly birth deficits and surpluses and the male casualties in the war.

4028 Witt, C.D.
Problems of fertility statistics. A contribution to the demographic-sociological interpretation of their meaning and their methodology. (Probleme der Fruchtbarkeitsstatistik. Ein Beitrag zum demographisch-soziologischen Verständnis ihrer Bedeutung und ihrer Methodik.) Hamburg, Hamburger Ärzte Verlag for the Deutsche Akademie für Bevölkerungswissenschaft an der Universität Hamburg, 1954. 112 pp.
The significance of fertility statistics (in relation to other demographic statistics and to sociological and anthropological theory). The phenomena of fertility (physiological and social factors). The methods of fertility statistics (general observations, descriptive methods, diagnostic methods, summary). Institutions engaged in fertility research. Literature.

[See also Titles 4115, 4126-4128, 4136, 4156, 4169, 4190, 4196, 4216, 4230, 4276, 4282, 4317, 4335, 4341, 4343, 4371, 4377, 4382, 4390, 4401, 4410, 4411, 4417, 4418, 4435, 4445, 4457]

B. REGIONAL POPULATION STUDIES

Historical Studies

4029 Boak, Arthur E.R.
Manpower shortage and the fall of the Roman Empire in the West. The Jerome Lectures, Third Series. Ann Arbor, University of Michigan Press; London, Geoffrey Cumberlege, Oxford University Press, 1955. viii, 170 pp.
"The author, applying to population trends in antiquity the methods worked out by modern demographers, shows that there was a real and general decline in both rural and town population of the Roman Empire in the West from the middle of the second century on; that the Late Empire was from its beginnings faced with a marked deficiency in human resources; and that this manpower shortage was the cause — not, as has been held, the consequence — of much that has been considered authoritarian in the administration of Late Rome...." [Publisher's announcement]

4030 Borhegyi, Stephan F. de.
Changes in the patterns of indigenous and Spanish settlement in the Santa Cruz valley, New Mexico. (Cambios en los tipos de poblamiento indigena y español en el valle de Santa Cruz, Nuevo Mexico.] Ciencias Sociales 6(32):78-86. April, 1955.

4031 Chatelain, A.
The value of French population censuses in the 19th century. (Valeur des recensements de la population française au XIXe siècle.) Revue de Géographie de Lyon 4: 273-280. 1954.°

4032 Cook, S.F.
The epidemic of 1830-1833 in California and Oregon. University of California Publications in American Archaeology and Ethnology 43(3):303-326. May, 1955.
Discussion of the nature of the malady, its origin and territorial course, and the damage to the native population, including a critical review of the literature.

4033 Delaspre, Suzanne.
The temporary emigration from the Basse-Auvergne region during the 18th century until the Revolution. (L'émigration temporaire en Basse-Auvergne au XVIIIe siècle jusqu'à la veille de la Révolution.) Annales de Géographie 63(339):339-357. Sept.-Oct., 1954.°

4034 Dewdney, John C.
Changes in population distribution in the county of Fife, 1755-1951. Scottish Geographical Magazine 71(1):27-42. April, 1955.°

4035 Festy, Octave.
Attempts at economic statistics during the Directory and the Consulate. (Les essais de statistique économique pendant le Directoire et le Consulat.) Annales Historiques de la Révolution Française, April-June, 1953.°

4036 Festy, Octave.
The movements of the French population from the beginning of the Revolution to the Consulate and their causes. (Les mouvements de la population française du début de la Révolution au Consulat et leurs causes.) Annales Historiques de la Révolution Française, Jan.-March, 1955. Pp. 27-49.°

4037 Festy, Octave.
The situation of the French population according to the year IX session of the general councils of the departments. (La situation de la population française d'après la session de l'an IX des conseils généraux de département.) Revue d'Histoire Economique et Sociale 3:281-292. 1954.°

4038 Fleisher, Eric W., and Weibull, Jörgen.
Viking times to modern; the story of Swedish exploring and settlement in America, and the development of trade and shipping from the Vikings to our time. Minneapolis, University of Minnesota Press, 1954, 1953. 115 pp.°

4039 Gigli, Fernanda.
The density of population in Tuscany in the 16th and 18th centuries. (La densità di popolazione in Toscana nei secoli XVI e XVIII.) Rivista Geografica Italiana 61(4): 265-276. Dec., 1954. With English summary.°

4040 Naguleswaran, P.
The history of the working-class movement in Ceylon. II. The problem of Indian immigrant labour in the 19th century. Ceylon Historical Journal 1(3):230-241. Jan., 1952.
Includes immigration data covering the periods 1839-1846 and 1866-1878.

4041 Reissner, H.G.
Jews in medieval Ceylon. The Ceylon Historical Journal 3(2):136-144. Oct., 1953.
Includes estimates of numbers and location.

4042 Shepperson, W.S.
The promotion of British emigration by agents for American lands, 1840-1860. Reno, University of Nevada Press, 1954. 92 pp.°

4043 Société des Océanistes.
The blond element in Polynesia and the nordic migrations to Oceania and America. (L'élément blond en Polynésie et les migrations nordiques en Océanie et en Amérique.) Paris, Société des Océanistes, 1955. 48 pp.°

4044 Uchida, Kanichi.
A historical and geographical study of the village life and population in Ina valley, Nagano prefecture. The New Geography (Shin-chiri) 3(3):1-21. Dec., 1954. In Japanese.°

[See also Titles 4004, 4018, 4055, 4087, 4105, 4133, 4137, 4226, 4283, 4342, 4354, 4377, 4399, 4498, 4501]

Regional Demography

4045 Bianchini, Mario.
The present distribution of the population in Israel. (La distribuzione attuale della popolazione in Israele.) Bolletino della Società Geografica Italiana 7:8-10, 368-399. Aug.-Oct., 1954.
Historical review of immigration, economic assimilation, geographical distribution, and natural increase.

4046 Bose, Ashish.
India's population problem. Census Commissioner's analysis. Modern Review 95:365-368. May, 1954.°

4047 Boyer Banse, L.
The Tunisian aspect of the world demographic drama. (L'aspect tunisien du drame démographique mondial.) Ecrits de Paris, Oct. and Nov., 1954. Pp. 59-69 and 55-64.°

4048 Brazil. Conselho Nacional de Estatística.
Development, composition, and distribution of the population of Brazil. The increase of population and factors concerning it. (Desenvolvimento, composição e seus fatôres.) Estudos Demográficos No. 120. Rio de Janeiro, 1954. 14 pp., processed.

4049 Brazil. Conselho Nacional de Estatística.
Note on the indirect influence of migrations on the composition and growth of the native population of the states of São Paulo and Minas Gerais. (Nota sôbre a influência indireta das migrações sôbre a composição e o incremento da população natural dos Estados de São Paulo e de Minas Gerais.) Estudos Demográficos No. 119. Rio de Janeiro, 1954. 5 pp., processed.

4050 Brice, W.C.
The population of Turkey in 1950. Geographical Journal 120:347-352. Sept., 1954.
"Density, language, and occupation." [P.A.I.S. 41(30)]

4051 Caparrós, Rogelio.
Population and housing in Cuba. (Población y vivienda en Cuba.) Cuadernos del Instituto Interamericano de Historia Municipal e Institucional, No. 6, Sept., 1953. Pp. 45-64.°

4052 Cointet, A.
The overpopulation of the French Antilles. (Le surpeuplement des Antilles Françaises.) Revue d'Etudes Coopératives 24: 111-124. April-June, 1954.°

4053 Cox, Peter R.
Addendum to Demography: developments during 1949-54. Cambridge, published for the Institute of Actuaries and the Faculty of Actuaries, Cambridge University Press, 1955. viii, 64 pp.

4054 Cox, Peter R.
Demographic developments in Great Britain since the Royal Commission on Population. Eugenics Review 47(1):21-31. April, 1955.
Topics discussed include: Actual and projected populations; Marriages; Marriages and fertility; Reproductivity; Family size; Social class differences in fertility; Mortality and other matters; Ageing of the population.

4055 Daric, Jean.
The population of the Saar: structure, growth, living conditions. (La population du territoire de la Sarre: structure, évolution, conditions de vie.) Population 10(1): 79-98. Jan.-March, 1955.
Growth of the total population since 1816. Areal distribution and characteristics in 1951. Factors in natural increase and migration. Economic structure of the occupied population. Prospects.

4056 Darkot, Besim.
On the demographic movements in Turkey. (Sur les mouvements démographiques

en Turkie.) Review of the Geographical Institute of the University of Istanbul, International Edition 2:37-44. 1955.°

4057 Dewhurst, J.F., et al.
America's needs and resources: a new survey. New York, Twentieth Century Fund, 1955. xxix, 1148 pp.
Parts include: Basic trends; Consumption requirements; Capital requirements; Government and foreign transactions; Resources and capacities; Summary. Chapters on: Trends and projections; Population growth; The labor force; Needs vs. resources.

4058 France. Institut National de la Statistique et des Etudes Economiques.
The French population. First results of the 1954 census, according to the studies of the Institut.... (La population française. Premiers résultats du recensement 1954 d'après les travaux de l'Institut national de statistique et des études économiques.) Cahiers Français d'Information 279:10-13. July 1, 1955.
Discusses rural-urban migration, demographic, social and economic characteristics, growth prospects.

4059 Henry, Louis.
La situation démographique de la France. Pp. 9-16 in: La France Economique en 1953. Paris, Recueil Sirey, 1954. 418 pp.
Annual summary of nuptiality, natality, mortality (general, by age, infant), natural increase, migration, net change.

4060 Henry, Louis, and Pressat, Roland.
La situation démographique. Population 10(2):317-336. April-June, 1955.
France: 1954 data (vital rates, foreign immigration, internal migration); review of population movements during 1953 (natality, mortality). Europe: distribution of population, 1955; trends in natural increase and infant mortality.

4061 Honduras. Servicio Informativo del Banco Central de Honduras y del Banco Nacional de Fomento.
Demographic and socio-economic aspects of the population of Honduras. (Aspectos demográficos y económico-sociales de la población de Honduras.) Prepared by Manuel Tosco and Rubén Mondragón, with the collaboration of Rogelio Martinez Augustinus. Tegucigalpa, 1952. 39 pp.°

4062 Hungary. Központi Statisztikai Hivatal.
The 1949, i.e. one thousand nine hundred forty-nine, population census. (Az 1949, i.e. ezerkilencszáznegyvenkilencedik, évi népszámlálás.) A Szocialista Statisztika Könyvtára, 19. Budapest, Statisztikai Kiadóvállalat, 1952. 97 pp.
Summary description and analysis of data.

4063 Institute for the Study of the History and Culture of the U.S.S.R.
The demography of Kazakhstan and the cultivation of the new lands. Bulletin of the Institute... 2(4):18-23. April, 1955.°

4064 Instituto Elcano. Departamento de Geografía Aplicada.
Population movements in Zaragoza, capital city and province, 1900-1950. (Informe sobre el movimiento demográfico de Zaragoza, capital y provincia, 1900-1950.) Zaragoza, 1953.
The components of growth and economic problems.

4065 Italy. Documentary Center.
Aspects of Italian population and economy from 1901-1951. Italian Affairs 3:429-433. July, 1954.
Notes on rates of growth and changing age distributions.

4066 L., X., and Pr., R. [Lannes, Xavier, and Pressat, Roland.]
Some results of the 1954 census. (Quelques résultats du recensement de 1954.) Population 10(1):135-142. Jan.-March, 1955.
Notes on the data for metropolitan France: the comparative growth of total population in the departments; urban concentration; immigration trends, as indicated by the presence of aliens.

4067 Macura, Miloš.
The population of Yugoslavia and the conditions of its development. (La population de la Yougoslavie et ses conditions de développement.) Population 10(2):295-316. April-June, 1955.
Retrospective sketch; present numbers, characteristics, and growth rates; problems and policies; selected bibliography, 1951-1954.

4068 Martín de la Escalera, Carmen.
Algerian economy, demography, and emigration. (Economía, demografía y emigración argelina.) Cuadernos Africanos y Orientales 29:39-51. 1955.°

4069 Mendes Corrêa, A.A.
Demographic aspects of the Cape Verde Islands. (Aspectos demográficos do arquipélago de Cabo Verde.) Garcia de Orta 1(1): 3-16. 1953.°

4070 Neesen, V.
Some demographic data on the population of Ruanda-Urundi. (Quelques données démographiques sur la population du Ruanda-Urundi.) Zaire 7(10):1011-1025. Dec., 1953.

4071 Okazaki, Ayanori.
The present and future of Japan's population. Japanese Paper, No. 4. Submitted by the Japan Institute of Pacific Relations as a preparatory paper for the Twelfth Conference of the IPR to be held at Kyoto, Japan, September-October, 1954. Tokyo, Japan Institute of Pacific Relations (Nihon Taiheiyo Mondai Chosakai), 1954. 13 pp.

4072 Oriental Economist.
Population and health. Oriental Economist 23(534):168-171. April, 1955.
A summary of official data on postwar demographic trends and public health expenditures in Japan.

4073 Pollard, A.H.
Some remarks on Australian population trends and their social and economic effects. Transactions of the Actuarial Society of Australasia 7:199-209. 1950-1952.°

4074 Rhea, Theodore R., et al.
Some basic population data for Territory of Hawaii with emphasis on the problem of aging. Honolulu, Territorial Conference on Planning for Hawaii's Aging Population, 1954.°

4075 Sauvy, Alfred.
General survey of and latest facts about the French economy and population. (Vue générale et mise au point sur l'économie et la population françaises.) Population 10(2): 205-216. April-June, 1955.
Demographic changes in the period 1946-1954 briefly analyzed and realignments of economic policy considered.

4076 Semenova, A.
Lessons from the population census of 1939. (Iz opyta perepisi nasclenija 1939 g.) Vestnik Statistiki, June-Aug., 1954. Pp. 77-84.°
Review of book: Podjačik, P.G., Le recensement de la population de l'Union en 1939. 1953. 148 pp.

4077 Steel, R.W.
Land and population in British tropical Africa. Geography 40 (187, Part 1):1-17. Jan., 1955.°

4078 Steigenga, Willem.
Industrialization and emigration. The consequences of the demographic development in the Netherlands. Publications of the Research Group for European Migration Problems, No. 10. The Hague, Martinus Nijhoff, 1955. xii, 70 pp.
Parts include: Demographic past and future; Numbers and prospects; Perspectives: consequences for the demographic and economic development in the near future. Appendixes: Notes on computations referred to in Part I; Summaries in German, French, and Italian.

4079 Suter, K.
Study of the population and habitat of Le Touat, a region of the Algerian Sahara. (Etude sur la population et l'habitat d'une région du Sahara algérien: Le Touat.) Revue de Géographie Alpine 41(3):443-474. 1953.°

4080 Tachi, Minoru.
Japan's population problem and the Rome Congress. Japanese Planned Parenthood Quarterly 6(1):3-7. Jan.-March, 1955. In Japanese.

4081 Tregear, T.R.
Population problems of China. Far Eastern Economic Review 18:386-388. March 31, 1955.°

4082 University of Nebraska. Council for Community Study.
Census of eight Nebraska towns. Community Study No. 2. Lincoln, University of Nebraska, Department of Business Research, 1955. Unpaged, processed.
Contents include: Age distribution and the rural community, by Anton H. Anderson; The value of census information to public school officials, by Walter K. Beggs; Population composition, by Paul Meadows; Occupations among the rural nonfarm population, by Clarence J. Miller; Mobility and the age of the small town population, by Edgar Z. Palmer.

4083 Van der Laan, A.F.
Several demographic problems in western Europe. (Einige demografische vraagstukken in West-Europa.) Internationale Spectator, June 8, 1954. Pp. 377-392.
"The particular character assumed by the demographic problem in each state separately; overpopulation and the aging of the population; migrations; statistics."
[B.A.D. 10(1)]

4084 Veyret-Verner, Germaine.
Note on world demographic evolution since 1945. (Note sur l'évolution démographique mondiale depuis 1945.) Revue de Géographie Alpine 1:213-219. 1955.°

[See also Titles 4130, 4131, 4154, 4157, 4222, 4275, 4330, 4332, 4339, 4370, 4410, 4440, 4537]

Surveys Containing Demographic Material

4085 Banks, A. Leslie, Editor.
The development of tropical and subtropical countries, with particular reference to Africa. London, Edward Arnold, 1954. xvi, 218 pp.

Proceedings of a seminar held in Gonville and Caius College, Cambridge, July 1953. Population balance is discussed in the chapters on: Food and its production; Health and welfare; Possible lines of action.

4086 Blackwell, Gordon W., and Bachrach, Arthur J., Editors.
Human problems in the changing South. The Journal of Social Issues 10(1):1-48. 1954.°

4087 Darling, F. Fraser.
West Highland survey. An essay in human ecology. Oxford, Oxford University Press, 1955. xviii, 438 pp., folding map.

"...the report of a body established in 1944 by the Development Commission to survey the Western Highlands and the Hebrides" of Scotland. Chapter 3, Population, by R.S. Barclay and F. Fraser Darling includes sections: The rise and decline of population during the past two centuries; Analysis of the rise and decline during certain decades; The changing age structure of the population; Ecological conclusions.

4088 Dube, S.C.
Indian village. International Library of Sociology and Social Reconstruction. London, Routledge and Kegan Paul, 1955. xiv, 248, 16 pp.

A "total study" of the village of Shamirpet, near Hyderabad, based on group field research by the Osmania University Social Service Extension Project in 1951-52. Chapters include, beside an analytical introduction: The setting; Social structure; Economic structure; The web of family ties; Levels of living; Living together; The changing scene. Bibliography.

4089 Foundation for the Research of the Population of the Zuyderzeepolders.
Population research in the Zuyderzee territory. Summaries of volumes I-X. Publicaties van de Stichting voor het bevolkingsonderzoek in de Drooggelegde Zuiderzeepolders No. 17. Amsterdam, N. Sansom N.V., 1954. 210 pp.

Summaries in English of the volumes dealing with the Wieringermeer, Medemblik, and the Isle of Urk, describing research in the years 1937-1941 on population settled on the reclaimed areas. Anthropology, social psychology, linguistics and phonetics, sociophysiology and sociopathology, sociography, economy and folklore are represented.

4090 Gulick, John.
Social structure and culture change in a Lebanese village. Viking Fund Publications in Anthropology No. 21. New York, Wenner-Gren Foundation for Anthropological Research, 1955. 188 pp., 9 plates.

Chapters include: Population [the core group, age and sex ratios, health]; Subsistence [including sections on occupations, marital status and occupation, emigrants and emigration]; Kinship structure and marriage patterns; Social structure and culture change. Bibliography.

4091 Gulliver, P.H.
The family herds. A study of two pastoral tribes in East Africa, the Jie and Turkana. International Library of Sociology and Social Reconstruction. London, Routledge and Kegan Paul, 1955. xvi, 272, 16 pp.

Studies of the relation of family and property as parts of an ecological survey of two nomadic economies, based on field work by the author in 1948-1951.

4092 Jagannadham, V.
Social insurance in India. Djambatan and Amsterdam, International Educational Publishing House, Ltd., 1954. [viii], 100 pp.

A study of requirements for a social insurance system to accompany Indian industrialization. Chapter 4, The Indian scene: the background of conditions and allied services, surveys demographic conditions, public health and medical facilities, housing and education, social services and the 5-year plan, minimum wages, family limitation.

4093 Kelley, S.C., Jr., et al.
The population, labor force, and income of North Dakota, 1900-1975. North Dakota Economic Studies No. 1. Grand Forks, Bureau of Economic and Business Research, School of Commerce, University of North Dakota, 1954. 152 pp.

Published in cooperation with the U.S. Bureau of Reclamation.

4094 O'Reilly, P.
A century of the presence of the French in New Caledonia, 1853-1953. (Un siècle de présence française en Nouvelle Calédonie, 1853-1953.) Etudes, March, 1954. Pp. 356-361.

"The indigenous population, thought to be doomed, is in full expansion." [B.A.D. 9(2)]

4095 Paterson, Robert W.
The population, industry, and income of Virginia. University Microfilms Publication 7980. Ann Arbor, University Microfilms, 1954. Microfilm copy of typescript original: 2, xi, 255 pp., maps.
Thesis, University of Virginia, abstracted in Dissertation Abstracts 14(7): 1030-1031. 1954.

4096 University of Colorado. Bureau of Business Research. School of Business.
Report on the economic potential of western Colorado. By L.J. Crampon et al. Report to the Colorado Water Conservation Board. Boulder, 1953. 265 pp., processed.
"A survey of the economic potential of the western part of Colorado, based on the assumption that sufficient quantities of water be available where and when needed." Chapters include: Statistical population forecasts of western Colorado [history, 1850-1950, and projection for regional groups and for occupational groups to 2000]; Population.

4097 University of Miami. Bureau of Business and Economic Research.
The Florida keys: a demographic and economic appraisal. Miami Economic Research, Oct., 1954. Pp. 1-5.°
Growth of population and housing in Dade County since 1950. Ibid., July, 1954. Pp. 1-6.°

4098 Van der Valk, H.M.H.A.
The economic future of Canada. Toronto, McGraw-Hill of Canada, Ltd., 1954. xiv, 206 pp.
Chapters include: Population, wage level, and level of living; Economic growth in the next few decades [with section on the future population of Canada].

4099 Wyoming Industrial Research Council.
A study of the resources, people and economy of Big Horn Basin, Wyoming. By Victor L. Scovel and Floyd K. Harmiston. Laramie, College of Commerce and Industry, University of Wyoming, [1954]. viii, 162 pp., processed.
An economic study of Sweetwater County, Wyoming. By Floyd Harmiston. Ibid. viii, 104 pp., processed, 2 folding maps.
Powder River Basin: a study of its resources, people and economy. By Floyd K. Harmiston. Ibid. ix, 152 pp., processed.
Each study contains a chapter, Population and the labor force, based on data from the U.S. censuses of 1950 and state records.

[See also Titles 4100-4102, 4122, 4299, 4314, 4336, 4351, 4382, 4388]

C. SPATIAL DISTRIBUTION

General Spatial Distribution

4100 Beaujeau-Garnier, J.
Some characteristics of the geography of population in Africa. (Quelques traits de la géographie de la population en Afrique.) Cahiers de l'Information Géographique 11: 1-10. 1954.°

4101 Bellettini, Athos.
First results of a study of population distribution according to the altitude of the communes. (Primi risultati di una ricerca sulla distribuzione della popolazione secondo l'altimetria del Communi.) Statistica 14(4):794-810. Oct.-Dec., 1954.
Regional comparisons in Italy, using 1936 census data.

4102 Buschmann, K.H.
Settlements and habitations in India. Geographical Review of India 16(3):19-39. Sept., 1954.°

4103 Clark, Philip J., and Evans, Francis C.
Distance to nearest neighbor as a measure of spatial relationships in populations. Ecology 35(4):445-453. Oct., 1954.°

4104 Friedman, John R.P.
The spatial structure of economic development in the Tennessee Valley. A study in regional planning. University of Chicago, Research Paper 39, Department of Education and Research in Planning. Chicago, March, 1955. 187 pp.
"...Part I analyzes the effects of the distributional changes in manufacturing employment, other non-farm employment, and population on income, welfare, and economic possibilities of subareas of the region from 1930-1950...." [T.U.R. 14(3)]

4105 Netherlands. Rijksdienst voor het Nationale Plan.
The distribution of population in the Netherlands. First report of the Commission on the Distribution of Population. I. Statement of the problem. (De verspreidung van de bevolking in Nederland. I. Probleemstelling.) Rijksdienst...Publicatie, No. 3. ['s Gravenhage], 1949. 112 pp. With English summary. In 2 parts. IA, text; IB, maps and graphs.
Series of maps show population increase by decades, 1831-1931, by commune (gemeente).

4106 Veyret-Verner, Germaine.
The distribution of adults in the world. (La répartition des adultes dans le monde.)

Revue de Géographie Alpine 43(2):239-254. 1955.°

4107 Wolfbein, Seymour L.
Changing geography in American industry. Monthly Labor Review 77(7):739-743. July, 1954.

[See also Titles 4001, 4002, 4007, 4030, 4034, 4039, 4045, 4055, 4077, 4119, 4368, 4455, 4494]

Urban Patterns

4108 Cuzzort, Raymond P.
Suburbanization of service industries within standard metropolitan areas. Scripps Foundation Studies in Population Distribution, No. 10. Oxford, Ohio, published jointly by Scripps Foundation for Research in Population Problems, Miami University, and Population Research and Training Center, University of Chicago, 1955. 71 pp.
Tabular comparison of 147 standard metropolitan areas in the United States and multiple regression analysis of 125, to explain the contrasts between their population growth and the growth of their service industries. See also Title 4113, this issue.

4109 Evers, Hans.
The demographic structure of the city of Braunschweig. (Die Bevölkerungsstruktur der Stadt Braunschweig.) Kommunalpolitische Schriften der Stadt Braunschweig, Heft 16. Braunschweig, Feb., 1955. 94 pp.
Demographic, social, and economic characteristics.

4110 Fisher, Robert M., Editor.
The metropolis in modern life. Columbia University Bicentennial Conference Series. New York, Doubleday, 1955. xiv, 402 pp.
The papers and commentaries of the Conference on the Metropolis in Modern Life, held in 1954 as part of the Columbia University Bicentennial Conference Series. See Titles 4111, 4404, this issue.

4111 Florence, P. Sargant.
Economic efficiency in the metropolis. Pp. 85-124 in: Fisher, Robert M., Editor. The metropolis in modern life. See Title 4110, this issue.
Demographic definitions. Geographical patterns. Labor force structure.

4112 Fréchet, M.
The statistics of cities in France. (Les statistiques municipales en France.) Journal de la Société de Statistique de Paris 95: 73-74. Jan.-Feb.-March, 1954.
"M. Fréchet has undertaken to define, on the basis of a certain number of statistical elements, the typical French city. The first attempts to combine the basic data having failed, the author suggests a new method inspired by the work of the Rome Congress of the International Statistical Institute, 1953...." [D.E. 14(52)]

4113 Kitagawa, Evelyn M., and Bogue, Donald J.
Suburbanization of manufacturing activity within standard metropolitan areas. Scripps Foundation Studies in Population Distribution, No. 9. Oxford, Ohio, published jointly by Scripps Foundation for Research in Population Problems, Miami University, and Population Research and Training Center, University of Chicago, 1955. 162 pp.
"...two main objectives. First, the study is designed to provide basic information which can be used to answer the principal question, 'What implications do the present locational patterns and changes in locational patterns have for the manufacturing industry itself and for other metropolitan activities?' Second, ...the study formulates and tests a series of hypotheses that relate to city structure and growth." See also Title 4108, this issue.

4114 Korzybski, S.
Profile of population density in the study of the urban zones of London and Paris. (Le profil de densité des populations dans l'étude des zones urbaines de Londres et de Paris.) Urbanisme et Habitation, April-June, 1954. Pp. 113-156.
"The division of the territory of a city into concentric circles permits one to determine their respective densities and their distance from the center, and permits a graphic representation; cartographic representation." [B.A.D. 10(2)]

4115 Lavedan, Pierre.
History of urbanism. III. The present age. (Histoire de l'urbanisme. III. Epoque contemporaine.) Paris, H. Laurens, 1953. 447 pp.°

4116 Lebret, L.-J., et al.
Practical guide for the social survey. III. The urban survey. Analysis of the district and of the city. (Guide pratique de l'enquête sociale. III. L'enquête urbaine. L'analyse du quartier et de la ville.) Paris, Presses Universitaires de France, 1955. 186 pp.°

4117 Lohman, H.E.
The growth of population of the community near the large cities of the Bonn-Duisburg-Essen area, 1939-1950. (Die Bevölkerungsentwicklung der grossstadtnahen Gemeinden im Raume Bonn-Duisburg-Essen 1939 bis 1950.) Berichte zur Deutschen Landeskunde 13(2):141-156. Oct., 1954.°

4118 Mercier, Paul, et al.
The Dakar agglomeration. Some sociological and demographic aspects. (L'agglomération dakaroise. Quelques aspects sociologiques et démographiques.) Dakar, Institut Français d'Afrique Noire [IFAN], Section de Sociologie, 1954. 83 pp.°
Excerpt from Etudes Sénégalaises, No. 5.

4119 Mitchel, N.C.
The Nigerian town: distribution and definition. University College, Ibadan, Department of Geographical Research 7:1-13. April, 1955.°

4120 Mukherjee, Sudhansubhusan.
Urbanization in Burdwan division. Calcutta Statistical Association Bulletin 6(21): 1-16. March, 1955.
Definitions, number, size, and growth rates of villages, towns, conurbations. Factors of urbanization. Other factors at work.

4121 Nicholas, Paul.
New views of the French market. Our great agglomerations. (Vues nouvelles sur le marché français. Nos grandes agglomérations.) Vendre No. 290, April, 1954. Pp. 245-251.°

4122 Pakistan Institute of International Affairs.
Living standards in Pakistan. Pakistani Data Paper No. 2. Prepared for the Pacific Relations Conference, Kyoto, 1954. Karachi, 1954. [vi], 82 pp.
Chapter 4, Urban living standards, summarizes census data on urban population (demographic characteristics, growth of cities, urban labor force, occupational classifications, industrialization, governmental policy).

4123 Robson, William A., Editor.
Great cities of the world; their government, politics and planning. London, Allen and Unwin, 1954. 694 pp.
Parts: I. The great city of today. By William A. Robson.
II. Chapters by various authors on: Amsterdam, Bombay and Calcutta, Buenos Aires, Chicago, Copenhagen, London, Los Angeles, Manchester, Montreal and Toronto, Moscow, New York, Paris, Rio de Janeiro, Rome, Stockholm, Sydney, Wellington, Zurich.
Data on numbers and distribution of population are included.

4124 Rody, Martin J.
Urban growth and development in the Southeast — 1930-1950. Journal of the American Institute of Planners 20(4):183-188. Fall, 1954.°

4125 Schnore, Leo F., and Varley, David W.
Some concomitants of metropolitan size. American Sociological Review 20(4):408-414. Aug., 1955.
Variables considered include: geographical location; density of central city population; size and proportion of male labor force in manufacturing, trade, and other non-agricultural occupations, respectively; manufacturing decentralization; economic function; median family income; school years completed; proportion of employed males in professional occupations; median gross rental; median family income.

4126 Schöller, P.
Problems of urban geography. (Aufgaben und Probleme der Stadtgeographie.) Erdkunde 7(3):161-185. 1953.°

4127 Semon, Thomas T.
The case for a broader 'urbanized-area' concept. Journal of Marketing 19(2):162-163. Oct., 1954.°

4128 Steigenga, Willem.
A comparative analysis of a classification of Netherlands towns. Tijdschrift voor Economische en Sociale Geografie 46(6/7): 105-114. June-July, 1955.
A system of classification based on occupational structure and trade relations, with reference to economic stability.

4129 Sweetser, Frank L., Jr.
Population, area, and density of comparable metropolitan districts and standard metropolitan areas. American Sociological Review 20(4):414-419. Aug., 1955.
Comparative data for geographical regions and divisions of the United States, 1940.

[See also Titles 4004, 4147, 4167, 4314, 4315, 4319, 4320, 4323, 4326, 4364, 4440, 4454, 4467]

Rural Patterns

4130 Federici, Nora.
A study of the present characteristics of the depopulation of the mountains. (Per una

indagine sulle attuali caratteristiche dello spopolamento montano.) Statistica 14(4): 691-726. Oct.-Dec., 1954.

Comparison of Italian census populations in 1936 and 1951 in mountain regions.

4131 L., X. [Lannes, Xavier.]
Statistical data on depopulation in southern France between 1936 and 1954. (Données statistiques sur le dépeuplement dans la France méridionale entre 1936 et 1954.) Population 10(2):352-358. April-June, 1955.

Tabular comparisons by departments and by geographical regions and subregions.

4132 Pitié, J.
A disregarded geographical fact: rural overpopulation. (Un fait géographique méconnu: le surpeuplement rural.) Bulletin du Groupe Poitevin d'Etudes Géographiques 6(3):1-10. 1953.°

D. TRENDS IN POPULATION SIZE

Past Trends

4133 Brazil. Conselho Nacional de Estatística.
Growth of the population of the different physiographic regions and federal units from 1890 to 1950. (Incremento da população da diversas regiões fisiográficas e Unidades da Federação de 1890 a 1950.) Estudos Demográficos No. 124. Rio de Janeiro, 1955. 3 pp., processed.

4134 Freire, Rémy.
Development of the North American population. (Evolução da população norte-americana.) Revista Brasileira de Estatística 16(61):1-8. Jan.-March, 1955.

4135 Germany. Federal Republic. Nordrhein-Westfalen. Statistisches Landesamt.
The growth of population in North Rhine-Westphalia since 1871. (Die Bevölkerungsentwicklung in Nordrhein-Westfalen seit 1871.) By H. Pohle. Statistische Rundschau 7(5):81-86. May, 1955.

4136 Hauser, Philip M.
World population trends. Sociology and Social Research 39(2):73-80. Nov., 1954.
"Historical growth, regional differences, present patterns and projections." [P.A.I.S. 41(30)]

4137 Jones, Frederick W., assisted by Beckerman, Anita R.
Growth patterns of states. National Industrial Conference Board Studies in Business Economics, 47. New York, 1955. 80 pp.
"This is the third study in which the growth pattern technique introduced by the Conference Board three years ago is employed to analyze the historical development of our economy [see Study 39, Growth patterns of cities, 1953]."

Growth trends for each state, 1870-1953, are charted and compared with the trend for the United States. Data on components of trend, current statistics, and rank order among states.

4138 Real Estate Analyst.
Our increasing population. Real Estate Analyst (St. Louis, Mo.) 23:313-316. Aug. 23, 1954.
"Increase in numbers and percentage of change, by decades, 1790-1950." [P.A.I.S. 41(30)]

[See also Titles 4022, 4048, 4049, 4055, 4057, 4065-4067, 4078, 4087, 4093, 4096, 4117, 4146, 4210, 4330, 4372, 4440]

Estimates

4139 Balaban, Vojislav.
Estimate by sampling of preliminary results of the population census data. (Ocena prethodnih rezultata sredivanja podataka popisa stanovnistva pomocu uzorka.) Beograd, Zavod za Statistiku i Evidenciju N.R. Srbije, 1953. 18 pp. With English summary.°

4140 California. State Department of Finance.
California's population in 1955. Prepared by Carl M. Frisén. Sacramento, 1955. 12 pp., processed.

Includes discussion of components and projections to 1957 and 1960.

4141 Canada. Dominion Bureau of Statistics.
Estimates of households and families in Canada, 1954. Nombre estimatif de ménages et de familles au Canada, 1954. Ottawa, Queen's Printer, 1955. 7 pp.

4142 Pavlyuk, Mykhaylo.
Real size of the population of the U.S.S.R. today. Ukrainian Quarterly 10: 286-293. Summer, 1954.°

4143 Puerto Rico. Commonwealth. Department of Labor. Bureau of Labor Statistics.
Migration and population growth for Puerto Rico, 1954. Preliminary esti-

mates. Report on Population, No. 3. Puerta de Tierra, P.R., 1955. ii, 4 pp., folding table.

4144 U.S. Bureau of the Census.
Current Population Reports. Series P-25. Population estimates. Washington, 1947-.
Nos. 1-114. See 21:Title 3070.
No. 115. Provisional estimates of the population of the United States: January 1, 1950, to April 1, 1955. May 11, 1955. 1 p.
No. 116. Current status of population estimates prepared by the state agencies. June 6, 1955. 12 pp.
No. 117. Provisional estimates of the population of the United States: January 1, 1950, to May 1, 1955. June 10, 1955. 1 p.
No. 118. Provisional estimates of the population of the United States: January 1, 1950, to June 1, 1955. July 8, 1955. 1 p.
No. 119. Provisional estimates of the population of the United States: January 1, 1950, to July 1, 1955. Aug. 16, 1955. 1 p.

4145 U.S. Bureau of the Census and Agricultural Marketing Service.
Farm Population. Series Census — AMS (P-27). Washington, 1954-. [Continuation of Series Census — BAE.]
No. 20. See 21:Title 1293.
No. 21. Estimates of the farm population of the United States: April 1950 to April 1955. Aug. 11, 1955. 4 pp. [Comparable figures for 1910 to 1950 appear in Series Census — BAE, No. 16.]

4146 Walter, L.W.
Population trends in Arkansas. Arkansas Business Bulletin, Feb., 1955. Pp. 1-5.
State and Counties, 1950-1954. [P.A.I.S. 41(35)]

[See also Titles 4057, 4078, 4441, 4452]

Projections and Predictions

4147 Bogue, Donald J.
An estimate of metropolitan Chicago's future population: 1955-1965. Chicago, Chicago Community Inventory, University of Chicago; Oxford, Ohio, Scripps Foundation, Miami University, 1955. [8] pp., processed.
A report to the Chicago Plan Commission and the Office of the Housing and Redevelopment Coordinator.

4148 Brazil. Conselho Nacional de Estatística.
Attempt to forecast the composition by sex and age of the population of Brazil on July 1, 1955 and July 1, 1960. (Ensaio de previsão da composição por sexo e idade da população do Brasil em 1°-VII-1955 e em 1°-VII-1960.) Estudos Demográficos No. 131. Rio de Janeiro, 1955. 10 pp., processed.

4149 Brazil. Conselho Nacional de Estatística.
Estimates forecasting population development in the federal units in the decade beginning July 1, 1950. (Estimativas de previsão do desenvolvimento da população das Unidades do Federação no decênio iniciado em 1°-VII-1950.) Estudos Demográficos No. 129. Rio de Janeiro, 1955. 5 pp., processed.

4150 Duncan, Otis Dudley, and Redick, Richard W.
Illustrative projections of college enrollment in Illinois and the Chicago standard metropolitan area to 1990. Journal of General Education 8(2):74-85. Jan., 1955.
Discussion of methods, summary of results, and interpretation.

4151 Eastern Economist.
The Mahalanobis plan. Eastern Economist 24(16):651. April 22, 1955.
Publication of the quantitative targets, with population estimates for 1955-56 and 1960-61. Editorial comment.

4152 Eckstein, Alexander.
Conditions and prospects for economic growth in Communist China. Communist Bloc Program, China Project B/54-14. Cambridge, Center for International Studies, Massachusetts Institute of Technology, 1954. 147 pp., unpaged appendixes, processed.
Consideration of population dynamics, pp. 87-91. Appendix A, A note on Chinese Communist statistics, presents a table, Model economic growth in Communist China, 1953-1962, which includes rural and urban population.

4153 Federici, Nora.
Recent forecasts of the future growth of population in Italy. Banca Nazionale del Lavoro Quarterly Review 7:58-69. Jan.-June, 1954.°

4154 Federici, Nora.
Recent forecasts of the future demographic development of Italy. (Recenti previsioni sul futuro sviluppo demografico dell'Italia.) Moneta e Credito 7:31-47. Jan.-March, 1954.
"Examination of recent studies of the

population forecasts in Italy and comparison with the situation of other European countries. Regional consequences of the growth of the population." [D.E. 14(52)]

4155 Garfinkle, Stuart.
Changes in working life of men, 1900-2000. Monthly Labor Review 78:297-300. March, 1955.
Data for 1950 on the working life of men developed by the U.S. Bureau of Labor Statistics, continuing the use of life-table techniques already applied to data of 1940 and 1947. See 16(3):Title 1603.

4156 Hajnal, John.
The prospects for population forecasts. Journal of the American Statistical Association 50(270):309-322. June, 1955.
Discussion of the practicability of the prediction of births, the utility of projections, and improvements in methodology. An abridgement of this paper was presented to the World Population Conference, Rome, 1954.

4157 Henry, Louis, and Pressat, Roland.
Growth of the population of France to 1970. (Evolution de la population de la France jusqu'en 1970.) Population 10(1):9-56. Jan.-March, 1955.
Discussion includes: the nature of projections, the specific hypotheses concerning French mortality, nuptiality, fertility, and labor-force participation, the interpretation of the projections and their implications for economic planning, and particularly for the construction of schools and dwellings.
Tables give projected populations on low, high, and intermediate hypotheses for the total population by sex and age annually to 1971 and detailed estimates of the components.

4158 Regional Plan Association.
Population, 1954-1975, in the New Jersey-New York-Connecticut metropolitan region. Regional Plan Association Bulletin No. 85. New York, Nov., 1954. 36 pp., charts, maps.

4159 Savorgnan, Franco.
The demographic horoscopes. (Gli oroscopi demografici.) Statistica 14(3):390-395. July-Sept., 1954.
Prospects of future growth.

4160 Società Edison.
Forecasts of the future development of the Italian population. (Previsioni sul futuro sviluppo della popolazione italiana.) Quaderni di Studi e Notizie Società Edison (Milan), Oct., 1954. Pp. 727-733.°

4161 Texas Research League.
Projection of the population of Texas, 1950-1975. A study of Texas population trends. Austin, Texas Research League, 1954. 42 pp., processed.°

4162 U.S. Social Security Administration.
Long-range cost estimates for old-age and survivors' insurance 1954. By Robert J. Myers and Eugene A. Rasor. Actuarial Study No. 39. Washington, Dec., 1954. 46 pp., processed.
Includes projections of the U.S. population to the year 2050 and projected ratios of selected age groups to total population and to workers with wage credits to the year 2000.

4163 Wendt, P.F.
Estimating California's housing demand, 1954 to 1965. Savings and Loan Journal, May, 1955. Pp. 5-7.
"Based on population projections. Reprinted from the Appraisal Journal." [P.A.I.S. 41(37)]

4164 W-m., T. [Widstam, Ture]
Population projections, 1955-1970. (Prognos för hela befolkningen åren 1955-1970.) Statistisk Tidskrift, New Series, 4 (1):77-89. Jan., 1955.
Discussion and tables giving the projected populations of Sweden by age and sex, at five-year intervals.

[See also Titles 4054, 4057, 4078, 4093, 4096, 4098, 4136, 4140, 4376, 4399, 4443, 4453, 4454, 4457, 4486]

E. MORTALITY

General Mortality

4165 Lew, Edward A., and Marks, Herbert H.
Public health aspects of the 1951 Impairment Study. New facts on mortality of insured lives with medical impairment. American Journal of Public Health and the Nation's Health 45(5, Part 1):597-608. May, 1955.
Analysis of the evidence provided on mortality from selected diseases. See also 21:Title 3083.

4166 Lew, Edward A.
Some implications of recent changes in mortality. Transactions of the Association of Life Insurance Medical Directors of

America, 63rd meeting. Vol. 37, pp. 4-27. 1953/1954.°

4167 Mathen, K.K., and Sinha, P.
Relative health of women in Indian cities. Indian Medical Gazette 88(6):1-2, 4 folding charts. June, 1953.
Comparison of male and female death rates for principal cities, 1930-1950.

4168 Metropolitan Life Insurance Company.
Favorable health conditions in Western Europe. Statistical Bulletin 36(5):5-8. May, 1955.
Survey of general mortality in selected countries.

4169 Phillips, William.
A basic curve of deaths. Journal of the Institute of Actuaries 80(Part III, 346): 289-305. 1954. Discussion, pp. 306-325.
"The two-fold purpose of this paper is: (1) to hypothesize the existence of a basic curve of deaths...applicable not only to humanity but equally to all forms of life; (2) to seek a representation of that curve by a function containing as few parameters as possible...."

4170 Prawitz, H.
Investigation of mortality from different causes of death as a basis for forecasting future trend. The Swedish Actuarial Society, 50th Anniversary and Memorial Volume. 1954.
For abstract see J.I.A. 81(I, 357):70. 1955.

4171 Sumner, E.F.W.
The mortality of Indian and Fijian lives in Fiji. Transactions of the Actuarial Society of Australasia 7:105-112. 1950-1952.°

4172 Tutt, L.W.G.
Some remarks on Scottish mortality as experienced in the years 1936-38 and 1947-49. Transactions of the Faculty of Actuaries 21(Part 4, 180):343-403. 1953.
"This paper reviews the mortality rates derived from Scottish population data of the two periods by sex and age group, and within each age-range by grouped causes of death...." [J.I.A. 80(I, 354)]

4173 United Nations. General Assembly. Committee on Information from the Non-Self-Governing Territories.
Public health development in the light of mortality data. Report prepared by the Secretariat. Committee.... 6th Session (1955). Item 4(a) of the provisional agenda. A/AC.35 L.190. 4 March, 1955. 50, 16 pp., processed. Distribution limited.
"The present study falls into three main sections. The first section examines the mortality data available with a view to indicating general trends. The second section contains an analysis of the factors responsible for mortality in the territories. In the last section a comparison of the level of public health services is considered in relation to plans for the future."

[See also Titles 4025, 4054, 4157, 4183, 4186, 4187, 4191, 4217, 4403, 4486, 4490]

Prenatal Mortality

4174 Lenzi, Romolo.
On fetal mortality. (Sulla natimortalità.) Statistica 14(1):67-107. Jan.-March, 1954.
Analysis of Italian data, 1900-1950, comparing trends in stillbirths and infant mortality and noting the influence of legitimacy, sex ratio, birth order, age of mother, size of community.

[See also Titles 4177, 4179, 4449]

Infant Mortality

4175 Aldama C., Alvaro.
Statistics and their relation to the protection of infancy. (La estadística y su relación con la protección de la infancia.) Boletín de la Oficina Sanitaria Panamericana 35(6):690-709. Dec., 1953.
"Statistical study of the sanitary conditions most important to the population of El Salvador, with especial attention to the infant population." [I.A.S.I. 13(46)]

4176 Germany. Federal Republic. Statistisches Bundesamt.
Infant mortality in city and country. (Die Säuglingssterblichkeit in Stadt und Land.) Wirtschaft und Statistik 7(2):74-75. Feb., 1955.

4177 Haas, J.H. de.
Perinatal mortality and maternity home help in the Netherlands. Neonatal Studies 3(2):1-21. June, 1954.
Comparison of mortality and birth data (parity, prematurity, maternal mortality) among children born in the country and maternity home help children.

4178 H., L. [Henry, Louis.]
Infant mortality in England and Wales. (La mortalité infantile en Angleterre-Galles.) Population 10(2):359-360. April-

June, 1955.

Summary of study by Wallis Taylor. See 21:Title 2108.

4179 New York Academy of Medicine.

Perinatal mortality in New York City; responsible factors. A study of 955 deaths by the Subcommittee on Neonatal Mortality, Committee on Public Health Relations, the New York Academy of Medicine, analyzed and reported by Schuyler G. Kohl. Cambridge, published for the Commonwealth Fund by Harvard University Press, 1955. xxi, 112 pp.

"Contains the report of the second and final phase of an intensive study of infant mortality in New York City, undertaken in 1948 by the Committee on Public Health Relations.... [The report of the first part of the study...was published in 1952 under the title Infant and maternal care in New York City.]

4180 Tizzano, A.

Mortality and cause of death in the first year of life in relation to parentage. (Mortalità e cause di morte nel primo anno di vita in relazione alla filiazione.) Notiziario dell'Amministrazione Sanitaria 7(4). April, 1954.°

4181 Tizzano, A.

Sex and cause of death in the first year of life. (Sesso e cause di morte nel primo anno di vita.) Notiziario dell'Amministrazione Sanitaria 7(5). May, 1954.°

[See also Title 4174]

Mortality at Other Ages

4182 Goldstein, M.S.

Longevity and health status of whites and non-whites in the United States. Journal of the National Medical Association 46(2): 83-104. March, 1954.°

4183 Hocking, W.S.

The recent trend of mortality in England and Wales. Journal of the Institute of Actuaries 80(Part I, 354):101-106. 1954. [Death rates for males and females by age classes, England and Wales, 1952, standardized death rates 1930-32 to 1952, and ratios of the latter to rates for 1930-32. Graphs. Continuation of tables in J.I.A. 79:90-96.]

The recent trend of mortality in England and Wales. Ibid. 81(Part I, 357):58-63. 1955. [Death rates for age groups, England and Wales, 1953. Ratios of these rates to the rates for 1930-32. Also for 3-year average 1951-53 and ratios to 1930-32; and for standardized death rates, 1930-32 — 1953 annually. A continuation of tables in J.I.A. 80:101-106.]

4184 Martin, W.J.

The age-specific death-rates in England and Wales. Journal of Hygiene (Cambridge) 52:417-424. 1954.°

4185 McMahan, C.A., and Ford, Thomas R.

Surviving the first five years of retirement. Journal of Gerontology 10(2):212-215. April, 1955.

Analysis of data from samples of U.S. Army and Air Force retired officers during the years 1925-1948.

4186 Van den Berg, Bea, and Haas, J.H. de.

School child mortality in the Netherlands. (Schoolkindersterfte in Nederland.) Tijdschrift voor Sociaal Geneeskunde 6: 155-179. March 25, 1955. With English summary.

Trends since 1900. Mortality by age and sex, cause, season. International comparisons. Bibliography.

4187 Van Gelderen, H.H.

Preschool child mortality in the Netherlands. Verhandelingen van het Nederlands Instituut voor Praeventieve Geneeskunde XXVIII. Translated by Ph. Vuysje and W. Mulhall Corbet. Leiden, H.E. Stenfert Kroese, 1955. viii, 138 pp.

Proportions of children of pre-school age to the general population of the Netherlands. Comparative mortality, by provinces, distinguishing age, sex, cause, season, rural-urban residence, economic status, size of family. International comparisons. Prospects. Literature.

[See also Titles 4172, 4194, 4239, 4398]

Life Tables

4188 Brazil. Conselho Nacional de Estatística.

Adjustment of the life tables for the city of São Paulo according to the mortality of 1949-51. (Ajustamento das tábuas de sobrevivência para o Município de São Paulo calculadas segundo a mortalidade do período 1949-51.) Estudos Demográficos No. 109. Rio de Janeiro, 1954. 10 pp., processed.

4189 Chatten, S.J.R., and Wickens, P.C.

Life tables for the Australian states.

Transactions of the Actuarial Society of Australasia 7:125-136. 1950-52.°

4190 Gumbel, E.J.
The definition of the limiting age. (La définition de l'âge limite.) Giornale dell'Istituto Italiano degli Attuari 16:88-93. 1953.
"An analysis of the differences involved in establishing a satisfactory definition for w, the limiting age in a mortality table. The author prefers to regard the age at death as an unlimited continuous random variable." [J.I.A. 80(III, 356)]

4191 Jager, J. de.
Stochastical investigations of mortality tables. Het Verzekerings-Archief (Actuarieel Bijvoegsel) 30:76-92. 1953.
"The Redington-Michaelson r_x test is developed and applied to the male death rates in the Netherlands in 1947, 1948, and 1949, separately and aggregated. An analogous test based on the transformation of 2 arcs in $\sqrt{q_x}$ is applied to the female rates in 1949." [J.I.A. 80(I, 354)]

4192 Jecklin, H.
On the adjustment of life tables by arithmetic means. (Sur l'ajustement de tables de mortalité à l'aide de moyennes arithmétiques.) Boletim do Instituto dos Actuários Portugueses 10:17-28. Dec., 1954.

4193 McMahan, C.A.
Life tables for the population of Georgia by color, residence and sex, 1950-1951. Atlanta, Georgia Department of Health, Central Statistical Unit, 1955. 25 pp., processed.
Tables, summary, and interpretation of findings.

4194 McMahan, C.A., et al.
Longevity of retired army and air force officers. Human Biology 27(2):125-137. May, 1955.
A technique of life table construction applied to a relatively small and changing population. Age-specific death rates carried forward in the life table to statements of life expectancy.

[See also Titles 4004, 4527]

Mortality by Social and Economic Groups

4195 Institute of Actuaries.
Continuous mortality investigation: pensioner under life office pension schemes. Continuous investigation results for 1951. Journal of the Institute of Actuaries 80(III, 356):395-401.
Compare J.I.A. 78:362 and T.F.A. 21:219 for results of the years 1948-50 in respect to male lives in the pensioner's section of C.M.I.

4196 Tabah, Léon.
Social mortality: a new study in England. (La mortalité sociale: enquête nouvelle en Angleterre.) Population 10(1):47-78. Jan.-March, 1955.
A brief review of research on the mortality differentials of social and economic groups in France and Great Britain; an analysis of the Registrar General's report on mortality in England and Wales in five occupational groups, distinguishing sex, age, and cause, between 1921 and 1950; discussion of factors involved with particular reference to excess male mortality.

[See also Titles 4041, 4174, 4187, 4205]

Mortality by Cause

4197 Austria. Statistisches Zentralamt.
Death casualties of the Second World War. (Totenverluste des 2. Weltkrieges.) Statistische Nachrichten 10(4):146-147. April, 1955.

4198 Austria. Statistisches Zentralamt.
Tuberculosis mortality in Austria. (Tuberkulosesterblichkeit in Österreich.) Statistische Nachrichten 10(2):62-63. Feb., 1955.
Survey of data, 1934-1953, by age and by Länder.

4199 Brazil. Conselho Nacional de Estatística.
Mortality in the city of São Paulo, classified according to cause of death, 1939-1941 and 1949. (A mortalidade no Município de São Paulo, segundo grupos de causas de óbito, 1939-41 e 1949.) Estudos Demográficos No. 115. Rio de Janeiro, 1954. 13 pp., processed.

4200 Cullen, T.J.V.
Suicide mortality tables. Spectator, May, 1955. Pp. 107-108.
1952-1953, for United States and Canadian cities. [P.A.I.S. 41(42)]

4201 Cutler, Sidney J.
A review of the statistical evidence on the association between smoking and lung cancer. Journal of the American Statistical Association 50(270):267-282. June, 1955.
With particular reference to mortality.

4202 Denmark. Sundhedsstyrelsen.
Causes of death in the Kingdom of Denmark 1953. Dødsårsagerne i Köngeriget Danmark 1953. København, Kommission Hos H. Hagerup, 1955. 64 pp.

4203 Finland. Tilastollinen Päätoimisto.
Causes of death in Finland for the year 1952. Tables. (Kuolemansyyt, 1952. Tauluja.) Helsinki, 1954. 88 pp. With English titles.

4204 France. Institut National de la Statistique et des Etudes Economiques.
Statistics of the causes of death, 1954. Provisional results by departments. Parts I, II. (Statistique des causes de décès. Année 1954. Résultats provisoires par département. Fascicule I, II.) Paris, 1955.°

4205 Haw, R.H.
Some statistical aspects of mortality from degenerative heart disease. Journal of the Institute of Actuaries 80(Part I, 354): 69-100. 1954.
Presentation of data on types of heart disease and respective mortality, in England and Wales, 1930-1949. Discussion takes account of social class, sex, wartime trough, weather. Comparison with factors in bronchitis. Appendix: methods of calculation, tabulations, graphs.

4206 Kaufmann, Fritz.
Tuberculosis mortality in Switzerland, 1947-1952. (Die Tuberkulosesterblichkeit in der Schweiz, 1947-1952.) Blätter gegen die Tuberkulose, No. 6, 1953. Pp. 126-128.°

4207 Metropolitan Life Insurance Company.
Cancer in adults before midlife. Statistical Bulletin 36(6):1-4. June, 1955.
Summer accident hazards. Ibid., pp. 4-6.

4208 Pascua, M.
Increased mortality from cancer of the respiratory system. Bulletin of the World Health Organization 12(5):687-704. 1955.
"The author reviews the statistics of mortality from cancer of the respiratory system over the years 1949-1952 in sixteen countries, first considering the general trends and then analyzing the figures country by country...."

4209 Ravina, A.
Smoking and mortality statistics. (Tabagisme et taux de mortalité.) Presse Médicale 62(73):1529. Nov. 6, 1954.°

[See also Titles 4032, 4170, 4172, 4186, 4187]

F. FERTILITY AND NATURAL INCREASE

General Fertility

4210 Agarwala, S.N.
Measurement of population growth. Indian Journal of Economics 35(138):255-268. Jan., 1955.
Review of methods and rates for the measurement of fertility, using censuses and vital statistics.

4211 Boldrini, Marcello.
Sex in conception and in natality. (Il sesso nei concepimenti e nelle nascite.) Statistica 14(4):561-578. Oct.-Dec., 1954.

4212 Brazil. Conselho Nacional de Estatística.
Estimates of natality in Brazil, by federal units. (Estimativas da natalidade no Brasil, segundo as Unidades da Federação.) Boletim Estatístico 13(49):1-4. Jan.-March, 1955.
Calculation of the number of live births and of the birth rate for the ten years preceding Aug. 1, 1950, based on the census results and on hypotheses concerning infant mortality. Application of the birth rates for the federal units in estimating the number of live births in 1953. Concluding remarks.

4213 Centers, Richard, and Blumberg, Godfrey.
Social and psychological factors in human procreation. A survey approach. The Journal of Social Psychology 40:245-257. Nov., 1954.
A sample inquiry on attitude toward parenthood among 1021 persons in Los Angeles.

4214 Fasler, Samuel.
The hour of birth. A contribution to the statistics of natural increase. (Die Stunde der Geburt. Ein Beitrag zur Statistik der natürlichen Bevölkerungsbewegung.) Bern, A. Francke Ag. Verlag, [1954]. 151, 110 pp.
Data compiled from registrations at Basel, 1929-1938, classified according to other variables (day of week, month, sex, birth order, survival rate, legitimacy, age of mother, single vs. multiple births, etc.).

4215 Freedman, Ronald, et al.
"Ideals" of family size in the Detroit metropolitan area: 1954. Milbank Memorial Fund Quarterly 33(2):187-197. April, 1955.
Interviews with a prepared sample of

adult population in the tracted area of metropolitan Detroit in 1954, classified by social characteristics and relative preference.

4216 Lampe, P.H.J.
On male majority of human live births. In three parts, IA, IB, and II. Proceedings, Koninklijk Nederland Akademie van Wetenschappen, Amsterdam, Series C 57(4):507-516 and 643-651; 58(2):228-248. 1954; 1955.
Examination of Netherlands data, 1900-1949, and of theoretical considerations.

4217 Maroi, Lanfranco.
The periodicity from day to day of births and deaths in Italy. (La periodicità giornaliera dei nati e dei morti in Italia.) Statistica 14(3):412-423. July-Sept., 1954.
Analysis of data of 1951 and 1952.

4218 Mathen, K.K.
Public opinion survey on certain aspects of the population problem. Indian Journal of Medical Research 42(4):619-634. Oct., 1954.

4219 Metropolitan Life Insurance Company.
The baby boom continues. Statistical Bulletin 36(4):3-5. April, 1955.

4220 Millis, Jean, and You-Poh-Seng.
The effect of age and parity of the mother on birth weight of the offspring. Annals of Human Genetics 19(1):58-73. July, 1954.
Findings based on observation of over 18,000 Chinese births at the Singapore hospital, 1950 and 1951.

4221 Riemer, Ruth.
Social mobility and mobility aspiration in relation to fertility planning and fertility. University Microfilms Publication 7711. Ann Arbor, University Microfilms, 1954. Microfilm copy of typescript original: xi, 268 pp., tables.
Thesis, University of Michigan, abstracted in: Dissertation Abstracts 14(4): 606-607. 1954.

4222 Roberts, G.W.
Some aspects of mating and fertility in the West Indies. Population Studies 8(3): 199-227. March, 1955.
Discussion of principal types of unions, the defects in registration of nuptiality and vital statistics, the calculation and significance of gross reproduction rates, factors in fertility differentials.

4223 Sovani, N.V., and Dandekar, Kumundini.
Fertility survey of Nasik, Kolaba and Satara (North) districts. Gokhale Institute of Politics and Economics, Publication No. 31. Poona, 1955. x, 168 pp.
The report of a comprehensive sample survey among village, small town, and urban families in Bombay State in 1952-54. Data on procedures and registration practices; notes on demographic, social, and economic characteristics of the sampled communities; fertility data and rates in relation to characteristics; reproductive histories; attitudes toward family planning.

4224 Verschuer, Otmar Frhr. von.
Determining factors in human life. Observations of one- and two-egg twins for 25 years. (Wirksame Faktoren im Leben des Menschen. Beobachtungen an ein- und zweieiigen Zwillingen durch 25 Jahre.) Wiesbaden, F. Steiner, 1954. 288 pp.
Report on longitudinal twin studies based on statistically representative samples. Aspects studied include reproductive histories of the two types of twins.

4225 Yamazaki, J.N., et al.
A study of the outcome of pregnancy in women exposed to the atomic bomb blast in Nagasaki. Journal of Cell and Comparative Physiology 43: Supplement 1. May, 1954.°

[See also Titles 4023, 4028, 4054, 4157, 4177, 4229, 4230, 4237, 4258, 4263, 4412, 4486, 4490, 4511]

Differential Fertility

4226 Bash, Wendell H.
Differential fertility in Madison County, New York, 1865. Milbank Memorial Fund Quarterly 33(2):161-186. April, 1955.
Data from the census of New York in 1865, which contained a question on completed fertility, classified by age, occupation of husband, birthplace, value of dwelling or farm, and tools and equipment.

4227 Ford, P., et al.
Problem families. The fourth report of the Southampton Survey. Oxford, Blackwell, 1955. xii, 51 pp.
Includes statistical data on marital condition, size and composition of families, reproductive history, subnormality and mental illness, for the families applying for financial assistance, Jan. 1, 1952-Dec. 31, 1953, Southampton County Borough.

4228 Giurovitch, Gualterio.
On the differential fertility of the various

social classes in Rome in the first thirty years of the twentieth century. (Sulla natalità differentiale delle varie classi sociali a Roma nel primo trentennio del secolo XX.) Genus 10(114):143-162. 1953/1954.

4229 Hubback, Judith.
The fertility of graduate women. Eugenics Review 47(2):107-113. July, 1955.
Report on a sample study of 1165 wives graduated from British universities between 1930 and 1952, covering age at marriage and general fertility, distinguishing income groups and degree of academic success. Comparison with Social Class I in the British Family Census of 1946.

4230 John, C.C.
Maternity rates and fish-eating habits. Bulletin of the Central Research Institute of the University of Travancore. Series B. Statistics 2(1):1-20. April, 1954.
Report of a sample study of 1879 families giving fertility data by age and by type of diet (vegetarian, moderate fish eaters, regular fish eaters), with discussion of the DeCastro thesis.

4231 Mathen, K.K.
Rice diet and fertility. Alumni Association Bulletin, All India Institute of Hygiene and Public Health, Calcutta, Oct., 1954. Pp. 1-3.
Comparison of child-woman ratios in 1951 in the principal regions of India, classified by the cereal staples of diet, and other data.

4232 Matsunaga, E.
Intra-uterine selection by the ABO incompatibility of mother and foetus. Proceedings of the Japanese Academy 29:399-403. 1953.°

4233 Matsunaga, E., and Itoh, S.
Intra-uterine selection by the ABO incompatibility of mother and foetus. 2nd report. Proceedings of the Japanese Academy 29:529-531. 1953.°

4234 Nisbet, John D.
The families of teachers. Eugenics Review 47(2):115-116. July, 1955.
Results of an investigation of family size among 266 teachers from Aberdeen, for whom intelligence scores made 20 years earlier were available.

4235 Van Heer, F.
The birth rate of Dutch Roman Catholics. (Het geboorte-niveau der nederlandse Rooms-Katholiken.) Leyden, H.E. Stenfert Kroese, 1954. 201 pp. With English summary.
A study of socio-economic factors in differential fertility.

4236 Westoff, Charles F.
Differential fertility in the United States: 1900-1952. American Sociological Review 19(5):549-561. Oct., 1954.
Comparative data on differential fertility relationships (based on color, urban-rural residence, education, occupation) incorporating findings of a 1952 sample survey by the U.S. Census Bureau. Summary presented to World Population Congress, Rome, 1954.

[See also Titles 4023, 4054, 4222, 4223, 4263, 4486]

Sterility and Other Pathology

4237 Åkerrén, Y., and Lindseth-Ditlefsen, Else-Marie.
The sex quotient in premature infants. Acta Societatis Medicorum Upsaliensis 59 (1-2):55-60. Dec. 31, 1953.
Data from the Children's Hospital, Gothenburg, in the years 1940-50 and the Central Hospital, Borås, 1939-48.

4238 Colpitts, R.V.
Trends in therapeutic abortion. American Journal of Obstetrics and Gynecology 68(4):988-997. Oct., 1954.

4239 Knoepfli, Rolf.
A study of the fate (mortality) of premature infants born in the years 1915-1925. (Untersuchungen über das Schicksal (Mortalität) der Frühgeburten der Jahre 1915-1925.) Gynaecologia (Basel) 135(6):368-390. 1953.°

4240 Sorrentino, Beniamino, and Sorrentino, Michelangelo.
Marital sterility. (La sterilità coniugale.) Roma, Abruzzini, 1954. xvi, 282 pp.°
Bibliography, pp. 255-282.

4241 Valdes La Vallina, F.
Male sterility. (Esterilidad masculina.) Estudios sobre Esterilidad 5:1-65. 1954.
"This monograph stresses the investigation of male sterility in relation to female sterility. Individual chapters or paragraphs are devoted to the concept of the problem, to the history and frequency of sterility throughout the world and particularly in Mexico, to rural and urban birth-rates and the relation of infertility to age, religion, and demography...." [Fertility and Sterility 6(3)]

[See also Titles 4174, 4225, 4412]

Fertility Controls

4242 Blacker, C.P.
The rhythm method: two Indian experiments. Eugenics Review 47(2):93-105. July, 1955.
Critical discussion of the Ramanagaram and Lodi pilot studies in family planning. See 21:Title 2160.

4243 Devereux, George.
A study of abortion in primitive societies. A typological, distributional and dynamic analysis of the prevention of birth in 400 preindustrial societies. New York, Julian Press, 1955. xii, 394 pp.°

4244 Pommerenke, W.T.
Abortion in Japan. Obstetrical and Gynecological Survey 10(2):145-175. April, 1955.
Estimates of numbers performed, discussion of methods and of sterilization, effects of the abortion program (costs and medical complications), attitudes, assessment and recommendations.

4245 S., J. [Sutter, Jean.]
Inquiry into the possibility of spreading the Ogino method in India. (Enquête sur la possibilité de diffuser la méthode Ogino en Inde.) Population 10(2):361-365. April-June, 1955.
Summary of findings of the Ramanagaram and Lodi surveys. See 21:Title 2160.

[See also Titles 4218, 4221, 4223, 4268, 4412]

Natural Increase

4246 Germany. Federal Republic. Statistisches Bundesamt.
Natural increase in the Federal Republic, 1950-1954. (Die Bevölkerungsentwicklung im Bundesgebiet in den Jahren 1950 bis 1954.) Wirtschaft und Statistik 7(2):72-73. Feb., 1955.

4247 Italy. Centro di Documentazione.
The natural movement of the population. (Il movimento naturale della popolazione.) Documenti di Vita Italiana 5(42):3301-3304. May, 1955.
"Sharp demographic recovery in 1954 not due solely to the diminution in the death rate."

[See also Titles 4045, 4078]

G. MARRIAGE, DIVORCE, & THE FAMILY

Marriage and Divorce

4248 Baron, A.M.
Marriages and divorces at Casablanca. (Mariages et divorces à Casablanca.) Hespéris (Rabat) 3rd and 4th quarters, 1953. Pp. 417-440.°

4249 Belgium. Institut National de Statistique.
Les mariages et les divorces en 1953. Bulletin de Statistique 40(10):1333-1349. Oct., 1954.

4250 Cannon, Kenneth L.
An analysis of divorce in Nebraska. University of Nebraska Agricultural College Experiment Station, Research Bulletin 174. Lincoln, 1954. 26 pp.

4251 Carter, Hugh.
National marriage and divorce statistics. Progress report, 1945-1955. Public Health Reports 70(4):347-352. April, 1955.

4252 Dorjahn, V.R.
The demographic aspects of African polygyny. University Microfilms Publication 9234. Ann Arbor, 1954. Positive microfilm copy of typescript: xvi, 415 pp., maps, tables. [Thesis, Northwestern University.]

4253 Doroghi, Ervin.
Grounds for divorce in European countries. New York, Research Division of the New School for Social Research, 1955. vi, 52 pp.
Evolution of the laws on divorce. Current grounds for divorce in Western Europe. Divorce in the U.S.S.R. and its satellites. Defences against divorce. Countries prohibiting divorce (Italy, Spain, Eire, Andorra, and for Catholics only, Liechtenstein and Portugal). Conclusions.

4254 Hill, Reuben J.
Impediments to freedom of mate selection in Puerto Rico. Journal of Home Economics 47:189-197. March, 1955.°

4255 Jansen, J.H.C.
Frequency distribution of the age differences of married couples. Het Verzekerings-Archief (Actuarieel Bijvoegsel) 31: 67-73. 1954.°

4256 Kephart, William M.
Occupational level and marital disrup-

tion. American Sociological Review 20(4): 456-465. Aug., 1955.

Analysis of Philadelphia data and comparison with the literature.

4257 Lenzi, Romolo.

Methods of measuring nuptiality. (Metodi di misura della nuzialità.) Statistica 14(3):520-533. July-Sept., 1954.

4258 Metropolitan Life Insurance Company.

Marriages and the married population. Statistical Bulletin 36(5):3-5. May, 1955.

4259 Vergottini, Mario de.

Indexes of matrimonial attraction. (Sugli indici di attrazione matrimoniale.) Statistica 14(3):424-428. July-Sept., 1954.

[See also Titles 4003, 4054, 4157, 4222, 4262, 4443, 4510, 4515]

The Family

4260 Fiorelli, Sergio.

The overcrowding of dwellings at Bologna. (L'affollamento della abitazioni a Bologna.) Statistica 15(2):345-359. April-June, 1955.

Includes data on the distribution of families by number of members, Nov. 4, 1951.

4261 Gaudefroy-Demombynes, Maurice.

Muslim institutions. Translated from the French, Les institutions musulmanes, by John P. MacGregor. London, Allen and Unwin, 1950, 1954. 216 pp.

Chapter 8, The family, outlines law and custom.

4262 Glick, Paul C.

The life cycle of the family. Marriage and Family Living 17(1):3-9. Feb., 1955.

Summary of U.S. data on demographic, social, and economic characteristics of marriage partners and other members of the family and household.

Revision of a paper presented to the World Population Congress, Rome, 1954.

4263 Monahan, Thomas P.

Is childlessness related to family stability? American Sociological Review 20(4): 446-456. Aug., 1955.

Survey of available data in the United States.

4264 Pinchbeck, I.

Social attitudes to the problem of illegitimacy. British Journal of Sociology 5:309-323. Dec., 1954.

"In western society, with a historical survey of Great Britain." [P.A.I.S. 41(30)]

4265 Schelsky, H.

Losses and gains of the family in the evolution of modern society. (Pertes et gains de la famille dans l'évolution de la société moderne.) Familles dans le Monde, Oct.-Dec., 1954. Pp. 325-335.°

4266 Stycos, J.M., and Blake, Judith.

Jamaican family life project: some objectives and methods. Social and Economic Studies 3(3/4):342-349. Dec., 1954.

Research under the auspices of the Institute of Social and Economic Research, University College of the West Indies, Jamaica.

4267 Vito, F.

The family as an economic and social unit. (La famiglia come unità economica e sociale.) Rivista Internazionale di Scienze Sociali 26(3):193-208. May-June, 1955. Anno LXIII, Serie III.

Discussion of the economic and social functions of the family and their bearing on public policy on family allowances and the employment of women.

4268 Wurzbacher, Gerhard.

Social differentiation and integration. Based on a pilot study of a country community in the West German Republic by the UNESCO Institute for Social Studies at Köln. (Soziale Differenzierung und Integration. Zur Leitstudie des UNESCO-Institutes für Sozialwissenschaften in Köln über eine ländliche Gemeinde in der Westdeutschen Bundesrepublik.) Kölner Zeitschrift für Soziologie 6(1):31-41. 1953-1954.

The family and the members' position in it. Parent-child relationship. Parents' attitude toward number of children.

[See also Titles 4003, 4054, 4141, 4174, 4234, 4248, 4249, 4417-4419, 4490]

H. INTERNATIONAL MIGRATION

General

4269 Bachi, R., and Gil, B.

Changes in the immigration and population of Israel during 1948-1951. Jerusalem, Shivat Zion, 1953. In Hebrew.°

4270 Baron, R.

The Karany or Indo-Pakistani immigration into Madagascar. (L'immigration Karany ou indo-pakistanaise à Madagascar.) Afrique et Asie, 4th quarter, 1954. Pp. 47-54.°

4271 Bolletino Quindicinale dell'Emigrazione.
Spanish emigration in 1952 and 1953. (L'emigrazione spagnola nel 1952 e nel 1953.) Bolletino Quindicinale dell'Emigrazione, Dec. 10, 1954. Pp. 23, 348.
Volume and destination of overseas emigration and return movements.

4272 Borrie, W.D.
Economic and demographic aspects of post-war immigration to Australia. Research Group for European Migration Problems Bulletin 3:1-8. Jan., 1955.°

4273 Cosmo, Giandomenico.
Italian emigration movements up to 1940. Banca Nazionale del Lavoro Quarterly Review 7:70-86. Jan.-June, 1954.
"Analysis of the bibliographical and statistical sources." [P.A.I.S. 41(35)]

4274 Darrouy, H.
The migration of North Africans into France. (La migration nord-africaine en France.) La Nouvelle Revue Française d'Outre-Mer, April, 1955. Pp. 154-162.°

4275 France. Institut National d'Etudes Démographiques.
Algerians in France. A demographic and social study. (Les Algériens en France. Etude démographique et sociale.) Travaux et Documents, Cahier No. 24. Paris, 1955. 180 pp.°

4276 Gini, Corrado.
International migrations. (Delle migrazioni internazionali.) Rivista di Politica Economica 45(3):173-186. March, 1955.
Contrasts between internal and international migrations. Analysis of theories of demographic adaptation to international migrations. Proposal of supranational regulation.

4277 International Labour Office.
International Catholic Migration Congress. (Congrès international catholique des migrations.) Informations Sociales (Geneva), Dec. 1, 1954. Pp. 585-587.°

4278 International Labour Office.
Migration to and from the Netherlands in 1954. Industry and Labour 13(12):561-562. June 15, 1955.
Summary of official communication from the Netherlands Central Bureau of Statistics.

4279 International Labour Office.
Sea migrations destined for and proceeding from Argentina, from 1947 to 1953. (Migrations par mer à destination et en provenance d'Argentine, de 1947 à 1953.) Informations Sociales (Geneva), Nov. 1, 1954. Pp. 480-484.°

4280 Isaac, Julius.
Post-war migration within the [British] Commonwealth. Research Group for European Migration Problems Bulletin 3:15-21. Jan., 1955.°

4281 Lannes, Xavier.
Les migrations internationales. Population 10(2):337-344. April-June, 1955.
Scandinavian migrations; Irish emigration; immigration to Brazil; European emigration in 1953; activity of the C.I.M.E. in 1954.

4282 Lenzi, Romolo.
Some comments on a small sample study of the causes of emigration. (Alcune considerazioni su una indagine campionaria in materia di emigrazione.) Bulletin of the International Statistical Institute 34(3):413-421. 1954.
Report on a sample survey by the Doxa Institute.

4283 Maunder, W.F.
The new Jamaican emigration. Social and Economic Studies (University College of the West Indies, Jamaica) 4(1):38-63. March, 1955.
The results of surveys in October, 1954, of two parties of Jamaican emigrants leaving for the United Kingdom. Demographic background of Jamaican emigration since 1881; data on present volume of movement, composition of the survey groups, employment and related characteristics, travel arrangements; summary and conclusions.

4284 Narain, Iqbal.
Beginning of emigration to Natal. India Quarterly 11(1):31-55. Jan.-March, 1955.°

4285 Round Table.
Ireland. Emigration and education. Round Table, Dec., 1954. Pp. 64-68.
"Population movements in Ireland, taken from the report of the Commission to Inquire into Emigration and Population Problems of the Irish Republic." [B.A.D. 10 (1)]

4286 Senior, Clarence.
Puerto Rican emigration: spontaneous and organized. (L'émigration portoricaine: spontanée et organisée.) Commission des Caraïbes, Bulletin Mensuel, Nov., 1954. Pp. 1-4 and 11.°

4287 Van der Laan, A.F.
European overseas migration and its sta-

tistical problems. (Europa's overzeese migratie en haar statistische problemen.) Internationale Spectator, Sept. 8, 1954. Pp. 543-560.

"Absence of a statistical definition of the concept of emigrant, and of unity in the method of assembling data; statistical survey of European emigration after the second world war." [B.A.D. 10(1)]

4288 Wapler, R.J.
Chinese emigration in Southeast Asia. (L'émigration chinoise dans l'Asie du Sud-Est.) Revue de Défense Nationale (Paris), Oct., 1954. Pp. 298-314.°

[See also Titles 4040, 4049, 4066, 4068, 4078, 4143, 4321, 4377, 4425, 4429, 4430-4433, 4490]

Settlement and Resettlement

4289 Aagesen, Aage.
The Japanese population in Brazil. (Det japanske folkeelement i Brasilien.) Kulturgeografi 7(37):1-8. Feb., 1955. With English summary.°

4290 Anderson, W.E.
Immigration problems. Review of the River Plate, Sept. 10, 1954. Pp. 23-26.

"Settlement of immigrants in agriculture or industry, and of those not directly productive." [P.A.I.S. 41(30)]

4291 Behrendt, Richard F.
General prospects for immigration and settlement in Central America. I.C.M.C. News 4(4):1-4. April, 1955.

4292 Cappelletti, Fausto.
The experience of colonization from overseas in Pedrinhas, Brazil. (La colonizzazione oltremare nell'esperienza di Pedrinhas in Brasile.) Rivista di Agricoltura Subtropicale e Tropicale 49(1-3):14-24. Jan.-March, 1955.°

4293 France. Union Nationale des Caisses d'Allocations Familiales.
Le problème des migrations en France. Informations Sociales (Paris), Sept., 1954. Pp. 894-948.°

A series of articles on the assimilation of immigrants and internal migrants:

Mourgues, L. L'assimilation des Italiens dans les Bouches-du-Rhône.

Raoux, Mlle. Quelques aspects de la situation des Nord-Africains dans le département de l'Isère.

Allain. L'émigration vendéene.

Villiers, de. La "vocation de migrants" des Vendéens.

Bonnicel. Les possibilités d'adaptation des agriculteurs migrants dans les départements du Sud-Ouest.

Joublin, F. Les migrants dans la région parisienne. [B.A.D. 9(6)]

4294 Gil, B.
Immigration since the establishment of the state and its manpower contribution. Jerusalem, Institute for Zionist Education, 1954. In Hebrew.°

4295 Gil, B.
The selectivity of the North African Aliyah. Alliance Review, Feb., 1955. Pp. 25-28.

"Age structure, percentage of earners, and occupations of the Moroccan-Tunisian Jewish immigrants in Israel." [P.A.I.S. 41(31)]

4296 Hill, George W., and Hill, Ruth O.
Some social and economic bases for immigration and land settlement in Venezuela. Boletin de Informaciones del Ministeria de Relaciones Exteriores (Caracas). 1949.°

4297 Lipscomb, J.F.
White Africans. London, Faber and Faber, 1955. 172 pp.

A plea for greater white enterprise in East Africa, especially Kenya. Chapter 6, Investment and immigration.

4298 Parsons, James J.
English-speaking settlement of the Western Caribbean. Yearbook of the Association of Pacific Coast Geographers 16:3-16. 1954.°

4299 Rossano, J.
European colonization in the Hausa of Marrakesh. (La colonisation européene dans le Haouz de Marrakech.) Cahiers d'Outre-Mer, Oct.-Dec., 1954. Pp. 342-366.

"The problem of water, the necessities of irrigation and hydroelectric production; creation of a specialized agriculture which takes account of the climatic advantages of the country by virtue of modern techniques utilizing hydraulic resources; maps, sketches." [B.A.D. 10(1)]

4300 Sansonetti, Luigi.
An Italian experiment in organized colonization in Costa Rica. I.C.M.C. News 4 (4):6, 7. April, 1955.

4301 Semaine Sociale du Canada. 31st, Mont-Laurier, 1954. Section Française.
Rural settlement and immigration. Report of the courses and lectures. (Etablis-

sement rural et immigration. Compte rendu des cours et conférences.) Montreal, Institut Social Populaire, 1954. 260 pp.°

4302 Turbani, M.
The development of Rhodesia in relation to European immigration. (Lo sviluppo della Rhodesia legato all'immigrazione europea.) Italiani nel Mondo, March 25, 1955. Pp. 13-16.°

4303 Zucchini, M.
Agricultural settlement and development schemes in Spain. (Opere in colonizzazione e sviluppo dell'agricoltura in Spagna.) Rivista di Economia Agraria 9(4):586-596. Dec., 1954. With English and French summaries.
Report on the National Institute of Settlement schemes, particularly in the Guadalquiver (Cadiz), Badajoz, and Violada (Huesca and Saragossa) regions, with a discussion of history and prospects.

[See also Titles 4038, 4042, 4045, 4275, 4280, 4286, 4311, 4405]

Temporary Movements

4304 International Union of Official Travel Organisations. Research and Organisation Commission.
International travel statistics, 1952. Sixth report of the Study Commission of the International Union of Official Travel Organisations on International Travel Statistics. London, The British Travel and Holidays Association on behalf of the..., 1954. 80 pp. Titles also in French.
Annotated tables on the volume of travel in 1952 giving national data by regions (Europe, Middle East and North Africa, South and East Africa, Central America and the Caribbean, Asia and Australasia); also tourist receipts and expenditures. Annual publication.

4305 Stanton, W.J.
The purpose and source of seasonal migration to Alaska. Economic Geography 31 (2):138-148. April, 1955.
Report of a sample study of 44 per cent of the southbound passengers from Alaska, June 1-Sept. 30, 1952.

Refugees

4306 Balogh, Elemér.
World peace and the refugee problem. Pp. 363-506 in: Academy of International Law, Hague. Recueil des cours, 1949, II. Vol. 75. Paris, 1949.
A selected bibliography, pp. 489-506.

4307 Comay, Michael.
The future of the Arab refugees. New York, Israel Office of Information, 1954. 16 pp.
The full text of the statement made by the Israeli Ambassador to Canada before the United Nations General Assembly's Ad Hoc (Political) Committee on Nov. 26, 1954.

4308 Edding, Friedrich.
The economic assimilation of expellees and refugees in Schleswig-Holstein. Studies of the German expellee and refugee problem. Part 2. Individual presentations. (Die wirtschaftliche Eingliederung der Vertriebenen und Flüchtlinge in Schleswig-Holstein. Untersuchungen zum deutschen Vertriebenen- und Flüchtlingsproblem. 2. Abt. Einzeldarstellungen.) Schriften des Vereins für Sozialpolitik, Gesellschaft für Wirtschafts- und Sozialwissenschaften, n.F., Bd. 7/v. Berlin, Duncker and Humblot, 1955. 129 pp.
Measures adopted to deal with the influx. Changes in composition of the population, labor force, and social structure. Occupations and unemployment. Problems of dependency. The effect of the migrations on the Schleswig-Holstein economy as a whole.

4309 Glatzl, E.
Methods and results of the integration of exiled farmers into the agriculture of Lower Saxony. (Methoden und Bewährung der Eingliederung heimatvertriebener Landwirte in die Landwirtschaft Niedersachsens.) Raumforschung und Raumordnung 2-3:97-104. 1954.°

4310 Jenkis, H.W.
Problems of the refugees in Western Germany. Cahiers de Bruges, Oct., 1954. Pp. 207-216.
"The economic burden they represent, the problem of their integration into the social body, their political strength."
[B.A.D. 10(2)]

4311 Murphy, H.B.M., et al.
Flight and resettlement. Population and Culture Series. Paris, UNESCO, 1955. 232 pp.
A cooperative study "to pull together the specific knowledge of mental health problems" of refugees in different countries. Introduction, The extent of the problem, by H.B.M. Murphy, contains quantitative summaries of distribution of refugees in 1939, at the end of the war, in 1947 and

1952, absolutely and in relation to the population of the individual countries.

4312 Schätzel, W.
The citizenship of political refugees. (Die Staatsangehörigkeit der politischen Flüchtlinge.) Archiv des Völkerrechts, March, 1955. Pp. 63-69.°

4313 Tanoglu, Ali.
The recent emigration of the Bulgarian Turks. Review of the Geographical Institute of the University of Istanbul, International Edition 2:3-35. 1955.°

[See also Titles 4422, 4427, 4434]

I. INTERNAL MIGRATION

General

4314 Biehl, Max.
Internal migration in the Soviet Union. (Binnenwanderungen in der Sowjetunion.) Zeitschrift für Geopolitik 25(11):677-684. Nov., 1954.
"Study of internal migrations in the U.S.S.R..... Tables show for 75 cities of more than 200,000 the number of inhabitants in 1926, 1939, 1950, and 1954." [P.R.T. 10(2)]

4315 Coe, Paul E.
Nonwhite population increases in metropolitan areas. Journal of the American Statistical Association 50(270):283-308. June, 1955.
Comparison of 1940 and 1950 data for Standard Metropolitan Areas, interpreted in relation to internal migration shifts in the United States as a whole.

4316 France. Institut National de la Statistique et des Etudes Economiques.
Preliminary results of the 1954 census on net migration in the rural communes and in the cities. (Premiers résultats du recensement de 1954 en matière de migrations nettes dans les communes rurales et dans les villes.) Etudes et Conjoncture 6(10): 503-514. June, 1955.
Comparison of data from the 1946 and 1954 censuses. Text discusses the nature of the data, measures, and the significance of the results. Tables for the departments and for cities that had over 50,000 in 1946.

4317 Gini, Corrado.
Internal migrations. (Delle migrazioni interne.) Rivista di Politica Economica 45 (1-2):1-13. Jan.-Feb., 1955.
Causes short- and long-term, economic and social, individual and collective. Effects on size and structure of population. Regional movements in Italy and the scope for policy.

4318 Goldstein, Sidney.
Migration and occupational mobility in Norristown, Pa. American Sociological Review 20(4):402-408. Aug., 1955.
Revised version of paper read at annual meeting of the American Statistical Association, September, 1954.

4319 Goldstein, Sidney.
Migration: dynamic of the American city. American Quarterly 6(4):337-348. Winter, 1954.
Summary of the Norristown data, 1910-1950, and of the historical and cultural background.

4320 Goldstein, Sidney.
Repeated migration as a factor in high mobility rates. American Sociological Review 19(5):536-541. Oct., 1954.
Report on patterns of in- and out-migration as shown by a sample survey of the adult male population of Norristown, Pa., in 1940 and 1950.

4321 International Labour Office.
Migrations in New Zealand, 1953-54. (Les migrations en Nouvelle-Zélande, 1953-54.) Informations Sociales (Geneva), Nov. 1, 1954. Pp. 485-487.
Statistics.

4322 International Labour Organisation.
International Labour Conference, 38th session, Geneva, 1955. Report V (2). Migrant workers (under-developed countries). Geneva, 1955. 85 pp. Text in English and in French.

4323 Mayer, H.M.
Current and prospective population trends. Appraisal Journal 23:212-224. April, 1955.
Some real estate implications of the "population frontier...in and around our cities...."

4324 Metropolitan Life Insurance Company.
Population still moving westward. Statistical Bulletin 36(6):6-8. June, 1955.
With a table, Population change due to civilian migration by state, 1940 to 1954.

4325 Mortara, Giorgio.
Note on the calculation of internal migra-

tions from the censuses. (Nota sôbre o cálculo das migrações interiores baseado nos censos.) Revista Brasileira de Estatística 16(61):9-13. Jan.-March, 1955.

4326 Real Estate Analyst.
Migratory population changes within metropolitan areas. Real Estate Analyst (St. Louis, Mo.) 23:317-338. Aug. 23, 1954.
"With charts showing percentage changes in population growth within 160 metropolitan areas, 1900-1950." [P.A.I.S. 41(30)]

4327 U.S. Bureau of Employment Security.
Puerto Rican farm workers in Florida: highlights of a study. [Washington], 1955. 7 pp., processed.
Puerto Rican farm workers in the Middle Atlantic states: highlights of a study. By William Mirengoff. [Washington], 1954. ii, 11 pp., processed.

[See also Titles 4004, 4033, 4049, 4130, 4131, 4276, 4305, 4446]

Rural-urban Movements

4328 Folkers, J.U.
On the question of the rural exodus in the North Sea marshes: diagnosis and therapy. (Zur Frage der Landflucht in den Nordseemarschen: Diagnose und Therapie.) Neues Archiv für Niedersachsen 4/6:81-105. 1954.°

4329 U.S. Department of Agriculture.
Development of agriculture's human resources. A report on problems of low-income farmers. Washington, Govt. Printing Office, April, 1955. 44 pp.
Includes data on migration and replacement ratios, U.S. males aged 25-69, for state economic areas.

[See also Titles 4316, 4319, 4320, 4500]

Settlement and Resettlement

[See Titles 4063, 4293]

J. CHARACTERISTICS

Demographic Characteristics

4330 Argentina. Instituto Etnico Nacional.
Development of the Argentine population pyramids through four censuses. (Evolución de la pirámida de la población argentina a través de los cuatro censos.) Boletin del Instituto Etnico Nacional 1(1):8-27. March, 1954.
"Diagrammatic comparison of the age structure of the Argentine population in 1869, 1895, 1914, 1936, and 1947, with the national groups and immigrants considered separately. Growth of the Buenos Aires population...." [P.R.T. 10(2)]

4331 Averanga, Asthenio.
Synopsis of the demographic situation of Bolivia: national census of 1950. (Sintesis panoramica de la situación demográfica de Bolivia: censo nacional de 1950.) Estadística 13(46):18-24. March, 1955.
First publication of the definitive results of the 1950 census of population and agriculture. Summary of demographic data on numbers and characteristics.

4332 Brazil. Conselho Nacional de Estatística.
Comparative data on the composition by sex and age of the population of the various states of Brazil. (Dados comparativos sôbre a composição por sexo e idade da população dos diversos Estados do Brasil.) Estudos Demográficos No. 123. Rio de Janeiro, 1955. 10 pp., processed.

4333 Brazil. Conselho Nacional de Estatística.
Rectification of the age distribution of the population of Brazil on July 1, 1950. (Retificação da distribuição por idade da população do Brasil em 1° de julho de 1950.) Estudos Demográficos No. 126. Rio de Janeiro, 1955. 3 pp., processed.

4334 Brink, Edward L.
Differences in the age distribution of farm and nonfarm populations; an analysis of Bureau of the Census data. University Microfilms Publication No. 7777. Ann Arbor, University Microfilms, 1954. Positive copy of typescript original: viii, 198 pp., map.°

[See also Titles 4023, 4027, 4048, 4049, 4053, 4054, 4059, 4066, 4067, 4074, 4082, 4087, 4093, 4101, 4122, 4141, 4187, 4196, 4269, 4393, 4464, 4539]

Biological Characteristics

4335 Komatu, Y.
Further discussion of mother-child combinations, concerning the inherited character after a panmixia. Reports of the Statistical Application of Research, Union of Ja-

panese Scientists and Engineers. March, 1954.°

4336 Mezquita Lopez, Manuel, et al.
Data obtained in the medical study of the school population in Almería. (Datos obtenidos en el estudio medico de la población escolar en Almería.) Revista de Sanidad e Higiene Pública 29(1-2):5-22. Jan.-Feb., 1955.

4337 Mourant, A.E.
The distribution of human blood groups. Oxford, Blackwell Scientific Publications, [1954]. xxi, 438 pp.
For a review of this book see: Allison, Anthony. Blood groups and racial groups. Impact of Science on Society 6(1):51-59. March, 1955.

4338 Neel, James V., and Schull, William J.
Human heredity. Chicago, Chicago University Press; London, Cambridge University Press, 1954. 361 pp.
"Chapter 15, on population genetics, deals largely with the geographical distribution of blood groups and the interpretation of these data.... The last three chapters concern applications of genetic knowledge to man...." [E.Q. 2(2)]

4339 Schmitt, Robert C.
Old age in Hawaii. A study of the older population of Oahu. Geriatrics 10(1):39-42. Jan., 1955.°

4340 Spuhler, J.N.
Some problems in the physical anthropology of the American Southwest. American Anthropologist 56(4):604-625. Aug., 1954.
Presentation and discussion of attempts to test biological relationships of historical and living populations in the American Southwest by the method of the coefficient of divergence and a classification of populations on this basis.

[See also Titles 4012, 4232, 4233, 4490]

Psychological Characteristics

4341 Baumgarten, Franziska.
Professional aptitudes of peoples. (Les aptitudes professionelles des peuples.) Revue Psychologique des Peuples 9:123-151. 1954.
Discussion of the "comparative study of peoples in respect to their relative capacity for service in occupations." [P.A. 29(2)]

[See also Title 4490]

Economic Characteristics

4342 Andrade, Ovídio de, Jr.
Contribution to the study of the economic activities of the population of Brazil. (Contribuição ao estudo das atividades econômicas da população Brasileira.) Estadística 13(46):3-17. March, 1955.
Comparison of definitions and data on the economically active population in the censuses of 1872, 1920, 1940, and 1950, and analysis of labor-force characteristics in 1940 and 1950.

4343 Bellettini, Athos.
A survey of studies of the structure of the labor market. (Punti di vista sugli studi per campione del marcato del lavoro.) Statistica 14(2):151-193. April-June, 1954.
A review article on recent Italian research.

4344 Brazil. Conselho Nacional de Estatística.
Activities of the population of the northeastern region, according to the demographic censuses of 1940 and 1950. (As atividades da população da região do Nordeste, segundo os censos demográficos de 1940 e de 1950.) Estudos Demográficos No. 111. Rio de Janeiro, 1954. 19 pp., processed.

4345 Council for Technological Advancement.
Population and labor-force trends. Trends in Technology and Employment No. 2. Chicago, Feb., 1955. 21 pp.°

4346 Federici, Nora.
The sex structure of the active population and its future prospect. (La struttura per sesso della popolazione attiva e le sue prospettive future.) Rassegna di Statistiche del Lavoro 7(1):3-11. Jan.-Feb., 1955.

4347 Food and Agriculture Organization of the United Nations.
Report on the 1950 World Census of Agriculture. Vol. I. Census results by countries. Rome, Food and Agriculture Organization of the United Nations, 1955. Variously paged.
"The entire Report... will deal with three different aspects of the census. The census results by countries will be published in one volume; a second volume will include a methodological study of the various national censuses, while a third will comprise an analysis of the main subjects included in the census."
Volume I is to be issued as a loose-leaf publication. The first folder contains an in-

stallment of 30 countries. Data for most include information on agricultural population.

4348 International Labour Office.
Labor force and employment in Japan. (La main d'oeuvre et l'emploi au Japon.) Informations Sociales (Geneva), Nov. 15, 1954. Pp. 526-530.°

4349 Metropolitan Life Insurance Company.
Women and occupation. Statistical Bulletin 36(4):8-10. April, 1955.

4350 Montagne, Robert, Editor.
Birth of the Moroccan proletariat. A cooperative survey carried out from 1948 to 1950. (Naissance du prolétariat marocain. Enquête collective exécutée de 1948 à 1950.) Cahiers de l'Afrique et l'Asie, No. 3. Paris, Peyronnet, 1952. 291 pp., folding maps.°

4351 Montini, Lodovico.
The parliamentary inquiry into destitution in Italy. International Labour Review 71:60-78. Jan., 1955.
"Origins of the inquiry and how it was carried out; findings of the commission on the prevalence of destitution and poverty and the legislation in force concerning assistance." [P.A.I.S. 41(33)]

4352 Namjoshi, M.V.
Planes of living. Indian Paper No. 5, submitted as a prepared paper for the twelfth conference of the Institute of Pacific Relations, Kyoto, Sept.-Oct., 1954, by the Indian Council of World Affairs, New Delhi. New York, Institute of Pacific Relations, 1954. 13 pp., processed.
Part I. Economic development and planes of living. Part II, Some indicators of planes of living in India, includes a section on the employment situation, with tabulations of labor force data from the 1951 census and the Final report of the National Income Committee.

4353 National Planning Association.
Selected studies of Negro employment in the South. N.P.A. Committee of the South, Report No. 6. Washington, 1955. x, 484 pp.
A series of regional case studies of the Negro labor force.

4354 Pane, Edda dal.
The gaps in the official statistical series on the occupational status of the female population. (La lacune nelle rilevazioni statistiche ufficiali della condizioni professionali della popolazione femminile.) Statistica 14(1):112-119. Jan.-March, 1954.
Analysis of Italian census data, 1881-1936.

4355 Rössel, Agda.
The employment of women in Sweden. International Labour Review 71(3):273-290. March, 1955.
Includes data on: women in the labor force and in the chief occupational classifications according to the censuses, 1920-1950; wages and hours; employment of married women; women in unions.

4356 South Carolina. Employment Security Commission.
Nonagricultural employment in South Carolina, 1939-1953. In cooperation with U.S. Bureau of Labor Statistics. Columbia, 1954. 13 pp.

4357 U.S. Department of Labor.
Skilled labor force in the United States, 1950. Monthly Labor Review 77:874-876. Aug., 1954.

[See also Titles 4004, 4055, 4057, 4082, 4093, 4155, 4334, 4369, 4374, 4378, 4380, 4381, 4385, 4387, 4393, 4473, 4474, 4477, 4509, 4518-4520, 4556]

Social Characteristics

4358 Deardorff, Neva R.
The religio-cultural background of New York City's population. Milbank Memorial Fund Quarterly 33(2):152-160. April, 1955.
Summary of data from the sample survey and the Youth Study by the Research Bureau of the Welfare Council in 1935 and the Health Insurance Plan of Greater New York in 1952.

4359 Delladio, A.
Total population — university population. Importance of the relation in twenty-four countries. (Popolazione complessiva — popolazione universitaria. Entità del rapporto in ventiquattro paesi.) Rassegna Statistiche Universitarie (Rome) No. 2, March, 1954.°

4360 Glick, Paul C.
Educational attainment and occupational advancement. Pp. 183-193 in: International Sociological Association. Transactions of the Second World Congress of Sociology..., Vol. 2. London, 1954.
Analysis based on information collected in the U.S. census of population, 1950.

[See also Titles 4004, 4082, 4403, 4542]

Ethnic Characteristics

4361 Bierschenk, Theodor.
The German ethnic group in Poland, 1934-1939. (Die deutsche Volksgruppe in Polen, 1934-1939.) Kitzingen-Main, Holzner-Verlag, 1954. 405 pp., map.°

4362 Brazil. Conselho Nacional de Estatística.
Real and apparent variations, from 1940 to 1950, in the color composition of the population of the southern region. (Variações aparentes e variações reais, de 1940 a 1950, na composição segundo a côr da população da região Sul.) Estudos Demográficos No. 116. Rio de Janeiro, 1954. 5 pp., processed.

4363 George, Pierre.
The nationalities of the U.S.S.R. (Les nationalités de l'U.R.S.S.) Geographia 44: 16-21. May, 1955.°

4364 Robison, Sophia M.
A demographic study of the Jewish population of Trenton, N.J., 1949. Preliminary draft. New York, Office for Jewish Population Research, n.d. 13 pp., 26 tables, processed.

4365 Rosenberg, Louis.
Population characteristics (distribution by age and sex) of the Jewish community of Montreal. Canadian Jewish Population Studies, Canadian Jewish Community Series, No. 5. Montreal, Canadian Jewish Congress, 1955. iv, 29 pp., processed.
Tables, maps, graphs.

4366 Rosenberg, Louis.
The state of growth and changes in the distribution of the Jewish population of Montreal. Canadian Jewish Population Studies, Canadian Jewish Community Series, No. 4. Montreal, Canadian Jewish Congress, 1955. 51 pp., processed.
Data on numbers and location, 1861-1951, vital rates, natural increase compared with other ethnic groups. Maps.

4367 Wurm, Stefan.
Turkic peoples of the USSR: their historical background, their languages and the development of Soviet linguistic policy. London, Central Asian Research Centre, 1954. 51 pp.°

[See also Titles 4004, 4171, 4182, 4275, 4289, 4295, 4315, 4337, 4340, 4353, 4430, 4472, 4543, 4563]

K. DEMOGRAPHIC AND ECONOMIC INTERRELATIONS

Demographic Factors and Resources

4368 Gay, F.G.
The management of the land area in France. (L'amènagement du territoire en France.) Revue du Conseil Economique Wallon 12:8-25. Jan.-Feb., 1955.
Theory and practice in the planned location of economic enterprises.

4369 Maris, A.
Agricultural population pressure in Europe. Netherlands Journal of Agricultural Science 3(1):50-59. Feb., 1955.
Summary of national trends in agricultural labor force in Europe and consideration of policies for the relief of pressure on agricultural resources in southern and eastern Europe.

4370 Population Problems Research Council and the Mainichi Newspapers.
The future of Japan. Her population and natural resources. By Koichi Aki. Population Problems Series No. 11. Tokyo, Mainichi Newspapers, 1955. 29 pp.
Chapter 3. What is an effective measure?

4371 Russell, E. John.
World population and world food supplies. New York, Macmillan, 1955. London, Allen and Unwin, 1954. 513 pp.
A region-by-region survey of present and potential food production, distinguishing types of farming. The U.S.S.R., eastern Europe, China, and southwestern Asia are omitted.

4372 South Dakota. State College Agricultural Experiment Station. Rural Sociology Department.
Population trends in relation to resource development in South Dakota. By John P. Johansen. Bulletin 440. Brookings, 1954. 48 pp.
Review of past trends in population and of adjustments to resources, 1870-1950, with particular reference to water resources. Discussion of future needs and alternative policies, includes changes in location, family size, occupation, output. See also 20(2):Title 906.

4373 Tizzano, A.
Population and world food resources. (Popolazione e risorse alimentari mondia-

li.) I Problemi del Servizio Sociale (Rome) 9(2). March - April, 1954.°

[See also Titles 4015, 4022, 4026, 4057, 4096, 4132]

Economic Growth

4374 Clark, Colin.
The development of the Italian economy. The increase in income per man-hour from 1901 to 1953. (Lo sviluppo dell'economia italiana. L'incremento del reddito per uomo-ora dal 1901 al 1953.) Moneta e Credito (Rome), 3rd quarter, 1954.°

4375 Clough, Shepard B.
Strategic factors in economic growth. A social science view. Political Science Quarterly 70(1):19-27. March, 1955.
The place of population growth in long-term trends in economic development is considered.

4376 Federal Reserve Bank of Dallas.
Potential economic growth of the United States during the next decade. Summary of a study released by the Joint Committee on the Economic Report, Eighty-third Congress, second session. Federal Reserve Bank of Dallas Monthly Business Review 40: 45-49. April, 1955.°

4377 Kuznets, Simon.
Economic growth and income inequality. American Economic Review 45(1):1-28. March, 1955.
The interrelations between long-term trends in population growth and in economic growth are discussed in the light both of present knowledge and of desirable research.

[See also Titles 4008, 4015, 4026, 4057, 4078, 4104, 4108, 4113, 4151, 4152, 4297, 4323]

Labor Force Participation

4378 Baker, W.J.
Part-time employment of the aged. Social Security Bulletin, March, 1955. Pp. 4-11.
Data collected by the U.S. Bureau of the Census and the U.S. Bureau of Old-Age and Survivors Insurance.

4379 Confederazione Italiana Sindacati Lavoratori.
The unemployment of intellectuals. (La disoccupazione intellettuale.) Bollettino di Studi e Statistiche 2-3, Feb.-March, 1955. Pp. 27[75]-32[80].°

4380 East African Statistical Department.
Some estimates of African employment and earnings in Uganda for the years 1951-1954. Quarterly Economic and Statistical Bulletin, No. 26. Dec., 1954. Pp. vi-viii.

4381 Horstmann, Kurt.
Withdrawal from employment. (Das Ausscheiden aus der Erwerbstätigkeit.) Wirtschaft und Statistik 7(2):55-61. Feb., 1955.
Analysis of tables of male and of female employment by industry and occupational groups and of the statistics of social insurance receipts.

4382 Molinari, Alessandro.
Employment, unemployment, and under-employment in countries of overpopulation and in southern Italy. (Occupazione, disoccupazione e sottoccupazione nei paesi sovrapopolati e nel Mezzogiorno d'Italia.) Statistica 14(4):611-644. Oct.-Dec., 1954.
Definitions, measurement, relation to population growth.

4383 New York. State Department of Commerce.
Production and the aging population. New York State Commerce Review, Feb., 1955. Pp. 1-9.
"Problems of labor supply and occupational distribution, and what management is doing to solve these problems." [P.A.I.S. 41(31)]

4384 Parukh, S.K.
Old age and employment. Journal of Vocational and Educational Guidance (Bombay) 1(2):35-37. 1954.
General article based on the experience of the Parsi Panchayet Employment Bureau, Bombay, and touching on the retirement age and the employment of older workers. [P.A. 29(2)]

4385 Puerto Rico. Commonwealth. Department of Labor.
Employment of women in Puerto Rico, 1953. Women in the labor force. Special Report on the Labor Force No. 9. Puerta de Tierra, P.R., 1955. 33 pp., processed.

4386 Puerto Rico. Commonwealth. Department of Labor.
Full and under employment in Puerto Rico, October 1952 to April 1954. Special Report on the Labor Force No. 13. Puerta de Tierra, P.R., 1955. 18 pp., processed.

[See also Titles 4004, 4111, 4340, 4352, 4398, 4430, 4448, 4456]

Occupation and Industry

4387 Khander, R.H.
The pattern of a divided economy: a national income analysis of India and Pakistan. Journal of the Royal Statistical Society 118(1):51-55. 1955.
"The purpose of this paper is to make a comparison of the general economic pattern of India and Pakistan, and also a comparison of the economic pattern of East and West Pakistan." Estimates of comparative occupational distribution of the working force, the distribution of domestic income by industrial origin, and the contribution of each sector to the net domestic income, are tabulated.

[See also Titles 4095, 4108, 4113, 4125, 4128, 4318, 4329, 4334, 4355, 4356, 4381, 4383]

Business Fluctuations

4388 Beall, John W.
A study of population and capital movements involving the South. University Microfilms Publication 9035. Ann Arbor, University Microfilms, 1954. Microfilm copy of typescript thesis, University of Illinois; iv, 190 pp., tables. Abstracted in: Dissertation Abstracts 14(11):1957-1958. 1954.°

4389 Cohen, Morris.
Growing pains and business. The relation of population growth to business cycles has changed dramatically over the past decade. Conference Board Business Record 11:354-361. Sept., 1954.°

4390 Eiriksson, Benjamin H.J.
Outline of an economic theory. Reykjavik, Helgafell Publishing Co., 1954. 494 pp.
Chapter 24, Natural oscillations of the economic system, discusses the causal influence of population oscillations on oscillations in other quantities in the economy. Appendix 2 (pp. 418-420) discusses A. Loesch's views on this subject in his Bevölkerungswellen und Wechsellagen (Jena, 1936).

4391 Katona, George, et al.
Contributions of survey methods to economics. Edited with an introduction by Lawrence R. Klein. New York, Columbia University Press, 1954. x, 269 pp.
Report on the work of the Survey Research Center, Institute of Social Research, University of Michigan, dealing with economic behavior. The relation of demographic structure and demographic variables to saving and business cycle analysis is discussed. Chapters by John B. Lansing, George Katona, James N. Morgan, and Lawrence R. Klein.

4392 National Industrial Conference Board.
Cycle and trend. By Albert T. Sommers. The Business Record 12(7):234-238. July, 1955.
A sketch of long-term growth factors in the United States' economy, including population, with particular attention to their effects on the business cycle in 1955.

[See also Title 4125]

Economic Dependency

4393 Boulton, E.A.
The problem of pensions. Economic News 24(3):1-4. March, 1955.
Statistical study of the proportions of economic dependency in Australia, 1911-1947. The percentage of specified older age groups in the labor force. Changing age distribution of the total population. Comparisons with the United States.

4394 Brennan, T.
Household structure and family income. Scottish Journal of Political Economy 2(2): 157-162. June, 1955.
Comparison of data from 1951 census of Great Britain and from a sample survey of Govan district, Glasgow, on the proportion of dependents to wage-earners in households.

4395 Howell, Trevor H.
Our advancing years. An essay on modern problems of old age. London, Phoenix House, 1953; New York, Macmillan, 1954. 192 pp.

4396 Kocovskij, D.
The problem of old age in the U.S.S.R. (Problema starosti v S.S.S.R.) Vestnik Instituta po Izuceniju Istorii i Kul'tury S.S.S.R. (Munich), Jan.-Feb., 1954. Pp. 99-109. Summaries in French, English, and German.

4397 Somogyi, Stefano.
The influence on social security of the changes in the demographic structure. (Influenza delle trasformazioni nella struttura demografica sulla protezione sociale.)

Rassegna di Statistiche del Lavoro 7(1):12-17. Jan.-Feb., 1955.

4398 Spiegelman, Mortimer.
Insuring the older ages. Paper presented at Educational Seminar conducted by the Bureau of Accident and Health Underwriters, New York, May 24 and 25, 1955. 17 pp., 15 tables, processed.
Data relate to life expectancy, labor-force participation, income, and net worth of U.S. population, aged 65 and over.

[See also Titles 4074, 4310]

Other Economic Variables

4399 Benjamin, B.
Vital statistics and productivity. Bulletin de l'Institut International de Statistique 34(4):152-167. 1955.
Illustration of methods for measuring manpower, actual and potential, applied to data for England and Wales of record 1841-1950 and projected to 1972 and 1992. The data concern: size of labor force, age and sex structure, marital status, occupational distribution, dependency, mortality, sickness and incapacity, employment indices.

4400 Hanna, Frank A.
Age, labor force, and state per capita incomes, 1930, 1940, and 1950. The Review of Economics and Statistics 37(1):63-69. Feb., 1955.
The direct effects on the distribution of income per capita of five population variants related to age groups and to the labor force.

4401 Lehman, Harvey C.
Age and achievement. Princeton, Princeton University Press (for the American Philosophical Society), 1953. x, 359 pp.
A compilation of data from many sources on the relation between the individual's curve of productive output and the length of his working life.

4402 Lydall, Harold.
The life cycle in income, saving and asset ownership. Econometrica 23(2):131-150. April, 1955.
Results obtained by the Survey of Personal Incomes and Savings, conducted by the Oxford Institute of Statistics in 1952 and 1953, in a sample comprising over 1500 local authority areas in Great Britain, to study variations in economic behavior according to age.

[See also Titles 4125, 4163, 4231]

L. OTHER INTERRELATIONS

Demographic and Social Factors

4403 Alexander, Chester.
Illiteracy and mortality. Social Science 30:78-81. April, 1955.
"Numerical relationship between illiteracy in a large group of cultures, and the mortality rates which prevail in those areas." [P.A.I.S. 41(37)]

4404 Chevalier, Louis.
Urban communities and the social evolution of nations. Pp. 18-40 in: Fisher, Robert Moore, Editor. The metropolis in modern life. See Title 4110, this issue.
Topics discussed include: Large cities and the numerical size of population (historical aspects, fertility, mortality); Large cities and the quality of the population.

4405 Wood, Arthur E.
Hamtramck then and now. A study of a Polish-American community. New York, Bookman Associates, 1955. 254 pp.
"...a study of the political and social behavior of Polish immigrants and their children...." Chapters include: Hamtramck and its setting in the Detroit area [census tract data]; Patterns of family living.

[See also Titles 4003, 4004, 4011, 4073, 4088, 4110, 4115, 4118, 4120, 4125, 4173, 4221, 4256, 4360]

Demographic and Political Factors

4406 Woodrow Wilson Foundation and National Planning Association.
The political economy of American foreign policy: its concepts, strategy, and limits. Report of a study group sponsored by the Woodrow Wilson Foundation and the National Planning Association. New York, Holt, 1955. 414 pp.
Population in relation to economic output, both agricultural and non-agricultural, is considered with particular reference to underdeveloped countries, western Europe, Japan, and the United States.

[See also Titles 4022, 4029, 4405]

M. POLICIES

General Population Policy

4407 Fink, L.
Population policies in India, Pakistan and Japan. Some medical aspects. Australian Outlook, Sept., 1954. Pp. 146-157.°

4408 Japanese Birth Control Institute.
Political parties on population policy. Japanese Planned Parenthood Quarterly 5 (4):57. Oct.-Dec., 1954.
Summary of policies held by six leading political parties. Quotation, translated into English, from the Yomiuri, Jan 1, 1955.

4409 Political and Economic Planning (PEP).
Population policies in India and Japan. Planning 21(378):33-48. April 4, 1955.

4410 Singh, V.B.
Some aspects of Indian population. Lucknow, Balkrishna Book Co., 1955. 22 pp.
"Paper read before the Indian Economic Association, Agra, Dec., 1954. Examines conflicting theories on the 'over-population' of India and proposals for increased agricultural production and family planning to solve the problem." [P.A.I.S. 41(35)]

[See also Titles 4067, 4072, 4075, 4267, 4426]

Measures Affecting Fertility

4411 Egner, Erich.
Economic problems of family policy. (Ökonomische Probleme der Familienpolitik.) In 2 parts. Schmollers Jahrbuch 75 (2):67-92 and 75(3):67-92. 1955.
Critical analysis of Oeter's theories and proposals for the equalization of the costs of childbearing and child-rearing. See Titles 4417, 4418, this issue.

4412 Ekblad, Martin.
Induced abortion on psychiatric grounds. A follow-up study of 479 women. Acta Psychiatrica et Neurologica Scandinavica, Supplementum 99. Stockholm and Copenhagen, Ejnar Munksgaard, 1955. 238 pp. Translated by Donald Burton.
A study begun in 1949, at the Psychiatric Clinic of the Karolinska Institutet, using material from the Sabbatsberg Hospital, Stockholm. Chapters include: Legislation on abortion and its application in Sweden; Published works in the subject and the aims of the investigation; Data on the composition of the sample according to social and demographic characteristics. Reproductive histories are given, also notes on involuntary sterility and sterilization, policy considerations. Bibliography.

4413 International Social Security Association.
Reports, Eleventh General Meeting, Paris, Sept. 7-11, 1953. Geneva, 1954. In 4 parts. 106, 312, 170, 67 pp.
Report I. Recent development in the field of social security. Report II. Family allowances. Report III. The evaluation of invalidity. Also [IV] Reports of the Permanent Committees.

4414 Lader, Lawrence.
The Margaret Sanger story and the fight for birth control. New York, Doubleday, 1955. 352 pp.

4415 Mandel'chtam, A.E.
The campaign against female sterility. Clinical and organizational problems. (La lutte contre la sterilité féminine. Problèmes cliniques et d'organisation.) Documents Soviétiques d'Obstétrique et de Gynécologie, No. 4, April, 1954. Extract translated from the Russian in Akoucherstvoi Ginekologiia, No. 1, 1953. Paris, Centre Culturel France — U.R.S.S., 1954. 7 pp., processed.°

4416 Mysore Economic Review.
The case for and against family planning, with special reference to India. Mysore Economic Review 41(5):9-12. May, 1955.
The essay by B.P. Misra that won the Population Essay Prize in 1950, summarized and reviewed by Satya Swadeshi.

4417 Oeter, Ferdinand.
Family policy. (Familienpolitik.) Stuttgart, Friedrich Vorwerk, [1954]. 235 pp.°

4418 Oeter, Ferdinand.
The principle of the family and the new social order. (Il principio della famiglia e il nuovo ordine sociale.) Rome, Previdenza Sociale, 1952. 67 pp.

4419 Rowntree, Griselda.
The finances of founding a family. Scottish Journal of Political Economy 1(1):201-232. Oct., 1954.
Description of a sample survey of 362 Aberdeen families having a first or second child in the early 1950's. Summary of results and discussion of implications for social policy, particularly maternity benefits.

4420 Sutter, Jean.
The world movement on behalf of limitation of families, 1945-1954. (Le mouvement dans le monde en faveur de la limitation des familles, 1945-1954.) Population 10(2):277-294. April-June, 1955.
Notes on the present status of "neo-Malthusian" measures in thirty countries.

4421 Taylor, M.C.
Neo-Malthusianism in Puerto Rico. Ponce, Catholic University of Puerto Rico, [1953]. 13 pp.°

[See also Titles 4011, 4092, 4218, 4244, 4267, 4408]

Policy on Internal Redistribution

[See Titles 4022, 4317, 4328]

Policy on International Migration

4422 Beauverger, M. de.
The International Convention on the Status of Refugees. (La convention internationale relative au status des réfugiés.) Informations Sociales (Geneva), March, 1955. Pp. 321-326.°

4423 Centre Européen d'Etudes de Population.
Outline of a study of the possibilities of a better organization of migrations within Europe. (Plan d'une étude sur les possibilités d'une meilleure organisation des migrations à l'intérieur de l'Europe.) [Paris], published for the Council of Europe, [1955].
Discussion of government policy, summarized in ICMC News 6(4).

4424 Dallas, K.M.
The origins of "white Australia." Australian Quarterly, March, 1955. Pp. 43-52.
"Contends that the policy originated in the need for skilled labor." [P.A.I.S. 41(41)]

4425 Intergovernmental Committee for European Migration. Council.
Draft report on the first session of the Council of..., Geneva, 30 November 1954 - 4 December 1954. Geneva, Jan. 19, 1955. 43 pp., processed.

4426 Ireland. Republic. Commission on Emigration and Other Population Problems 1948-1954.
Majority report. [Dublin, 1954.] XII, 345 pp., processed.
The volume also contains minority reports by the Most Rev. Dr. C. Lucey (30 pp.) and Mr. James F. Meenan (39 pp.) [C. Tietze]

4427 Langrod, G.
The charter of the political refugee. (La charte du réfugié politique.) Revue Politique et Parlementaire. March, 1955. Pp. 276-285.°

4428 Rondepierre, Jean.
The law for aliens: entry, stay, expulsion, naturalization, working and business permits, employers' obligations. (Statut des étrangers: entrée, séjour, expulsion, naturalisation, cartes de travailleur et de commerçant, obligations des employeurs.) Paris, Imprimerie Administrative Centrale, 1953. 190 pp.°

4429 Schwartz, C.P., Jr.
American immigration policy. Columbia Law Review 55:311-341. March, 1955.
"Compares the present law and proposed legislation, representing varying philosophies." [P.A.I.S. 41(32)]

4430 Simon-Depitre, Marthe.
The professional activity of aliens in France. (L'activité professionelle des étrangers en France.) Paris, 1955. 432 pp.
Economic activities other than wage-earning, with emphasis on legal aspects. Annex, Traités internationaux.

4431 United Nations. Secretariat. Office of Legal Affairs.
Laws concerning nationality. United Nations Legislative Series. ST/LEG/Ser. B/4 and Add. 1 and 2. Sales No. 1954.V.1. New York, 1954. xvii, 594, 4, 2 pp.
The texts of the basic laws of various states concerning nationality, excluding measures of implementation.

4432 U.S. Congress. House. Committee on the Judiciary.
Report on the administration of the Immigration and Nationality Act. Part 1. Staff report. Part 2. Report of a special subcommittee, February 28, 1955. Washington, 1955. v, 137 pp.°

4433 U.S. Immigration and Naturalization Service.
Administrative decisions under immigration and nationality laws. Vol. XV, February 1952 - June 1954. Washington, Govt. Printing Office, 1955. xx, 842 pp.

4434 Weis, P.
The international protection of refugees.

(La protection internationale des réfugiés.) Revue International de la Croix Rouge, Sept., 1954. Pp. 737-756.

A summary of the provisions of the Geneva Convention of 1951, which came into force in April 1954.

[See also Titles 4078, 4276, 4302, 4306, 4307, 4312]

Policy on Quality

4435 Allen, Gordon.
Perspectives in population eugenics. Eugenics Quarterly 2(2):90-97. June, 1955.

Discussion of current thought on the role of natural selection and of positive and negative policies designed to improve population quality.

4436 Böckli, Hans R.
Legal principles, political and legislative problems of the sterilization of the insane, with particular reference to Swiss law. (Gesetzliche Grundlagen, rechtspolitische und gesetzgeberische Probleme der Sterilization von Geistekranken, insbesondere nach schweizerischem Recht.) Winterthur, Verlag P.G. Keller, 1954. 125 pp.

4437 Hauser, Fritz.
The question of euthanasia in Swiss criminal law. (Die Frage der Euthanasie im schweizerischen Strafrecht.) Zürich, Juris-Verlag, 1952. 97 pp.°

4438 Silving, Helen.
Euthanasia: a study in comparative criminal law. University of Pennsylvania Law Review 103:350-389. Dec., 1954.

In European countries. [P. A. I. S. 4 (30)]

4439 Westergaard, Mogens.
Man's responsibility to his genetic heritage. Impact of Science on Society 6(2):63-88. June, 1955.

Outline of genetic theory and its significance for public policy in the atomic age.

[See also Titles 4338, 4395]

N. METHODS OF RESEARCH AND ANALYSIS

4440 Bocaz S., Albino.
The Gompertz curve applied to the growth of the Chilean population. (Curva de Gompertz aplicada al crecimiento de la población chilena.) Estadística Chilena 7:239-240. July, 1953.°

The population curve of Chile. (La curva de la población de Chile.) Ibid. 9:369-370. Sept., 1953.°

The Gompertz curve applied to the growth of the city of Santiago. (Curva de Gompertz aplicada al crecimiento de la ciudad de Santiago.) Ibid. 10-11:453. Oct.-Nov., 1953.°

4441 Brown, Hugh H.
A technique for estimating the population of counties. Journal of the American Statistical Association 50(270):323-343. June, 1955.

Topics discussed: Terms and formulae; School count; Census ratio; Ratio age factor; Conversion factor; Testing and adjustments; Coverage; Tests of accuracy.

4442 Cochran, William G.
Exchange techniques in the study of human beings. Milbank Memorial Fund Quarterly 33(2):121-136. April, 1955.

Tools and methods of investigation.

4443 Colombo, Bernardo.
On the subject of extrapolating from the dynamics of nuptiality. (Intorno all'estrapolazione della dinamica della nuzialità.) Statistica (Bologna) 14(4):747-775. Oct.-Dec., 1954.

Illustration of methods of projecting total marriages, on several hypotheses, using Swedish data.

4444 Duncan, Otis Dudley, and Duncan, Beverly.
A methodological analysis of segregation indexes. American Sociological Review 20 (2):210-217. April, 1955.

4445 George, Pierre.
On a proposed method of calculating the economic density of population. (Sur un projet de calcul de la densité économique de population.) Bulletin de l'Association de Géographes Français 237-238:142-145. 1953.°

4446 Johnson, Elmer H.
Methodological note on measuring selection in differential migration. Social Forces 33(3):289-292. March, 1955.

A study of specific net migration rates of population classified according to a given demographic characteristic, in this case educational attainment for southern males, aged 25-34, 1935-1940.

4447 Kelley, Samuel C.
A case study in the measurement of manpower resources. Columbus, Ohio State

University, Research Foundation, 1951. iv, 139 pp.
"Survey of patterns and factors in labor mobility."

4448 Lenzi, Romolo.
Further considerations on the elimination of registrants at the employment exchanges and other problems of labor statistics. (Ancóra sulla eliminazione degli iscritti agli uffici di collocamento ed altri problemi di statistica del lavoro.) Statistica 14(2):218-246. July-Sept., 1954.

4449 Mathen, K.K.
Calculation of a premature mortality rate for a hospital. Indian Journal of Pediatrics 20(79):97-105. May, 1953.

4450 Moran, P.A.P.
The estimation of the parameters of a birth and death process. Journal of the Royal Statistical Society, Series B,15:241-246. 1953.

4451 Pizzetti, Ernesto.
Observations on the arithmetical calculation of concentration ratios. (Osservazioni sul calcolo aritmetico del rapporto di concentrazione.) Statistica 14(3):469-482. July-Sept., 1954.

4452 Schmitt, Robert C., and Crosetti, Albert H.
Accuracy of the ratio-correlation method for estimating postcensal population. Land Economics 30(3):279-281. Aug., 1954.°

4453 Schmitt, Robert C.
An application of multiple correlation to population forecasting. Land Economics 30(3):277-279. Aug., 1954.°

4454 Schmitt, Robert C.
Forecasting city population by the ratio method. Journal of the American Water Works Association 46(10, Part 1):960-962. Oct., 1954.°

4455 Toschi, U.
An Italian representation of population distribution with the volumes method. (Una rappresentazione italiana di distribuzione della popolazione col metodo dei volumi.) Rivista Geografica Italiana 61(2). July, 1954.°

4456 Turner, H.A.
Measuring unemployment. Journal of the Royal Statistical Society 118(1):28-50. 1955.
Analysis of the concept of unemployment as reflected in the official statistics of the cotton industry in Great Britain in May 1952, with reference to the measurement of short time, overtime, underemployment, holidays, and other modifying circumstances.

4457 Yntema, L.
Demographic extensions of the simple birth and death processes. Het Verzekerings-Archief 31:6-20. 1954.
"The study of the discrete stochastic processes characterized by age- and sex-independent birth-, marriage-, and death-rates. The analyses of the simple cases lead to explicit expressions for the probability distribution of the population estimates at time t." [J.I.A. 80(III, 356)]

[See also Titles 4001-4003, 4025, 4078, 4103, 4108, 4113, 4114, 4116, 4128, 4137, 4150, 4156, 4169, 4170, 4190-4192, 4194, 4205, 4210, 4257, 4266, 4282, 4283, 4287, 4325, 4333, 4340, 4382, 4391, 4399, 4412, 4458, 4464, 4477]

O. ORGANIZATION & ADMINISTRATION

Registration of Vital Statistics

4458 García-Frías, Roque.
Utilization of the censuses to test the completeness of the birth register. (Utilización de los censos para probar la integralidad del registro de nacimientos.) Estadística 13(46):91-113. March, 1955.
Description of procedures for testing by the special enumeration of infants by cards at the date of the census.

4459 Great Britain. Lord High Chancellor.
Consolidation of enactments relating to the registration of births and deaths in England and Wales. Memorandum. [Great Britain. Parliament, 1952-1953. House of Lords. Papers and bills 13. Great Britain. Parliament, 1952-1953. House of Commons. Reports and papers 17. At head of title: Consolidation of enactments (procedure) act, 1949.] London, H.M. Stationery Office, [1952]. 17 pp.

4460 Haiti. Institut Haïtien de Statistique.
Legislation on the registration of births and deaths. Practical method employed by the Institute in the rural areas and results accomplished in the course of the year 1953. (Législation de l'enregistrement dans naissances et décès. Méthode pratique employée par l'Institut dans les sections rurales et résultats acquis au cours de l'année

1953.) In three parts. Bulletin Trimestriel de Statistique 15:7-15; 16:7-18; 17:7-47. Dec., 1954; March and June, 1955.

Part 1. See 21:Title 2350.

Part 2. The situation in respect to registration at the creation of the Haitian Institute of Statistics and the steps taken for improvement.

Part 3. Results attained in the rural areas in the year 1953.

4461 Inter American Statistical Institute.
International statistical standards: an annotated bibliography of the statistical recommendations of international conferences, meetings, and agencies. Preliminary edition. Washington, Pan American Union, 1954. vi, 121 pp.

4462 United Nations. Department of Economic and Social Affairs. Statistical Office.
Survey of social statistics. Statistical Papers, Series K, No. 1. ST/STAT/Ser. K/1. Sales No. 1954.XVII.8. New York, 1954. 46 pp.

"Discusses the need for statistical information in connection with social policy and social research; surveys available data in all fields of social statistics, and discusses existing gaps and imperfections."

4463 World Health Organization.
The work of the World Health Organization. Annual report of the Director General to the World Health Association and to the United Nations. Official Record of the..., No. 59. Geneva, March, 1955. 210 pp.

Chapter 5. Services in epidemiology and health statistics.

[See also Titles 4004, 4222, 4223, 4251]

Population Censuses and Registers

4464 Benjamin, B.
The quality of response in census-taking. Population Studies 8(3):288-293. March, 1955.

Discussion of kinds and significance of errors in the censuses of England and Wales in 1911, 1921, 1931, 1951.

4465 Cohen, Henry.
Planners need an improved census. Journal of the American Institute of Planners 21:33-42. Winter, 1955.

"Statistical needs for planning in urban areas." [P.A.I.S. 41(41)]

4466 Henripin, Jacques.
The census divisions of Canada from 1871 to 1951. In two parts. L'Actualité Economique 30(4):633-659 and 31(1):102-127. Jan.-March and April-June, 1955.

History of the census classifications for local areas and presentation of maps and tables indicating the status of 1951 county areas in decennial censuses since 1871, for the provinces of Quebec, Ontario, and the Maritimes.

4467 Krieger, Kurt.
Significance of a census of population for anthropology, exemplified in the city of Anka in northern Nigeria. (Die Bedeutung statistischer Erhebungen für die Völkerkunde am Beispiel der Stadt Anka in Nord-Nigeria.) Sociologus 4(1):67-81. 1954.

Problems in the design of census questionnaires to supply information needed by ethnologists.

4468 Lieberman, M.D.
The present statistical and census programme in Burma. Civilisations 4:571-577. 1954.°

4469 Portugal. Instituto Nacional de Estatística.
International classification, by activities, of all branches of economic activity. (Classificação internacional tipo, por actividades, de todos os ramos da actividade económica.) Lisbon, Sociedade Tipo, Ltda., 1953. 37 pp.

Authorized Portuguese translation of United Nations' publication of 1949.°

4470 Sweden. Statistiska Centralbyrån.
The United States current population survey. Statistisk Tidskrift, New Series, 4(1): 67-68. Jan., 1955.

4471 United Nations. Department of Economic and Social Affairs. Statistical Office.
Population census programme. In 13 parts. ST/STAT/P./L.1-13. April 28, May 9, 10, and 11, 1955. Processed.

L.1. Draft international recommendations. 37 pp. [Preliminary suggestions for 1960 based for the most part on Documents ST/STAT/P./L.2 to ST/STAT/P./L.13 below. Includes: General recommendations; Recommendations on planning, organization and administration; Recommendations on types of data to be collected; Definition and classification of data of each type; Recommendations on tabulation programme to be developed later.]

L.2. 1945-1954 experience. Types of data collected. 7 pp. [Contains summaries of national census practices, 1945-1954, for 52 countries and of international rec-

ommendations for the 1950 censuses. Both topics are treated in more detail for each type of data in the following documents.]

L.3. Total population. 5 pp.
L.4. Sex and age characteristics. 5 pp.
L.5. Marital status. 5 pp.
L.6. Place of birth. 6 pp.
L.7. Citizenship (legal nationality). 5 pp.
L.8. Language. 7 pp.
L.9. Educational characteristics. 17 pp.
L.10. Nuptiality and fertility. 19 pp.
L.11. Religion. 3 pp.
L.12. Physical and mental disabilities. 7 pp.
L.13. Economic characteristics. 30 pp.

4472 Wertheim, W.F.
Race in demography. De onderscheiding naar ras in de demografie en in de demografische statistiek. 's Gravenhage, Vereniging voor Demografie, 1953. 28 pp., processed. Text in Dutch only.
A review of recent practice, with an appendix listing the racial classifications used in recent censuses in thirteen African, eight American, five Asian, and two Oceanic territories.

[See also Titles 4004, 4031, 4226, 4354, 4461, 4462, 4504]

Other Data Collecting and Processing

4473 International Labour Office.
The Eighth International Conference of Labour Statisticians, Geneva, Nov. 23 - Dec. 3, 1954. Report of meeting. International Labour Review 71:291-299. March, 1955.
For summaries of the separate reports, see International Social Science Bulletin 7 (1); also Title 4474, this issue.

4474 International Labour Office.
International standard classification of occupations: minor groups. Eighth International Conference of Labour Statisticians, Report II. Geneva, 1954. 51 pp.
"The purpose of this report is to speed up the international standard classification of occupations which was begun in 1947. Review of the ILO's work in connection with such classification in general, and more particularly with the minor groups (agricultural labourers, office workers, etc.) which should be included in the 10 main occupational groups (e.g. labor provisions, surveys, etc.). Suggestions." [I.S.S.B. 7 (1)]

4475 Schaake, Ulrich.
Labor statistics. Practice and theory of the statistical standards of the labor administration of the German Democratic Republic. (Arbeitsstatistik. Praxis und Theorie des statistischen Aufgabengebietes in der Arbeitsverwaltung der Deutschen Demokratischen Republik.) Sozialpolitik. Schriftenreihe des Ministeriums für Arbeit und Gesundheitswesen. Hauptabteilungen Arbeit und Sozialwesen, Berlin. Berlin, Deutscher Zentralverlag, 1950. 47 pp.°

4476 Schmucker, Helga.
Basic outlines for a sample survey of family income. (Grundsätzliches zur repräsentativen Erfassung des Familieneinkommens.) Allgemeines Statistisches Archiv 38(4):341-358. 1954.
An analysis of methods, tests, and applications.

4477 U.S. Bureau of Labor Statistics.
Foreign and international information. Labor statistics series in [name of country] in 1952. Washington, July, 1954. Variously paged, processed.
Volumes for: Belgium; Denmark; France; Germany (West) [in 1953]; Italy; Norway; Sweden; Netherlands; United Kingdom.
Each publication describes briefly the major statistical series currently published in the country concerned and presents detailed descriptions of those in the field of consumer prices and workers' earnings.

4478 Yugoslavia. Savezni Zavod za Statistiku i Evidenciju.
Directives for a semiannual report on employed persons: method and manner of procedure. (Uputstva za polugodisnji izvestaj o zaposlenom osoblju; metod i nacin sprovodenja.) Metodoloski Materijali, 39. Beograd, 1954. 43 pp.°

[See also Titles 4004, 4223, 4287, 4461, 4462]

P. PROFESSIONAL MEETINGS AND CONFERENCES

4479 Brazil. Conselho Nacional de Estatística.
World Population Conference. (Conferência mundial de população.) Revista Brasileira de Estatística 16(61):61-62. Jan.-March, 1955.

4480 France. Union Nationale des Caisses d'Allocations Familiales.
The World Population Congress. (Le Congrès mondial de la population.) Informations Sociales (Paris), Nov., 1954. Pp. 1175-1179.°

4481 Groenman, Sjoerd.
Demografie à la carte. Mens en Maatschappij, Nov. 15, 1954. Pp. 363-369.
"The World Congress; the difficulties encountered by demography as a science." [B.A.D. 10(2)]

4482 Mertens, C.
The World Population Congress. (Le Congrès mondial de la population.) Revue Nouvelle, Nov., 1954. Pp. 440-447.
"The numerous countries represented at this congress; program of work; the neo-Malthusian tendency which prevailed at the congress; conclusions from the Catholic point of view." [B.A.D. 10(1)]

4483 Muramatsu, M.
Some impressions at the Rome Congress. Japanese Planned Parenthood Quarterly 5(4):62. Oct.-Dec., 1954. In Japanese.

4484 Polskie Towarzystwo Ekonomiczne. [Polish Economic Society.]
World Population Congress in Rome. Ekonomista 4:237-249. 1954. In Polish.°

4485 Rochefort, R.
Reflections on two congresses, the World Population Congress, and the International Catholic Congress on Migration. (Reflexions sur deux congrès, Congrès Mondial de la Population, Congrès International Catholique des Migrations.) Rassegna di Politica e di Storia, Dec., 1954. Pp. 6-11.°

4486 Royal Statistical Society.
Current population problems, with particular reference to the United Nations World Population Conference. [A discussion before the Royal Statistical Society held on December 15, 1954....] Journal of the Royal Statistical Society 118(1):12-27. 1955.
The discussion was opened by summaries: The quality of demographic data, by B. Benjamin; High, medium and low fertility areas and their problems, by E. Grebenik; Mortality trends, by W.P.D. Logan; Migration, by Brinley Thomas; Population projections, by J. Hajnal; Intelligence and fertility: genetic influences, by J.A. Fraser Roberts.

4487 Sorre, Maximilien.
Assessing population pressures. United Nations Review, Dec., 1954. Pp. 12-15.
"Brief report of the World Population Conference, Rome, Aug. 31 - Sept. 10, 1954." [P.A.I.S. 41(30)]

4488 Sorre, Maximilien.
The World Population Conference, Rome, September 1954. (La conférence mondiale de la population, Rome, septembre 1954.) Annales de Géographie 63(340): 401-415. Nov.-Dec., 1954.°

4489 Sweden. Statistiska Centralbyrån.
World Population Conference in Rome. Statistisk Tidskrift, New Series, 4(1):64-65. Jan., 1955.

4490 Tabah, Léon.
The World Population Congress. II. Main technical results. (Le Congrès mondial de la population. II. Principaux résultats techniques.) Population 10(2):217-238. April-June, 1955.
Summary of selected papers and comments on mortality, fertility, population genetics, the family, migration, aging, and economic development.

4491 Tizzano, A.
The first International Conference of the National Commission of Population and Health Statistics. (La prima Conferenza internazionale delle Commissioni nazionali di statistiche demografiche e sanitarie.) Notiziario dell'Amministrazione Sanitaria 7(1). Jan., 1954.°

4492 United Nations. Economic and Social Council.
Summary of documents and communications of the World Population Conference, Rome, 31 August - 10 September, 1954. A series. General reference: E/Conf.13.
"Over 300 reports were prepared for the conference, and each is given a brief 1-page summary in the above series." [I.S.S.B. 7(1)]

4493 Winkler, Wilhelm.
The World Population Congress in Rome 1954. (Der Weltbevölkerungskongress in Rom 1954.) Statistische Vierteljahresschrift 7(3/4):177-181. 1954.

[See also Titles 4004, 4080, 4085, 4277, 4301, 4322, 4398, 4413, 4425]

Q. BIBLIOGRAPHIES

4494 [Bogue, Donald J., Compiler.]
Studies in population distribution: completed 1950-55; underway May, 1955. [Scripps Foundation in Population Research, Miami University, Oxford, Ohio, 1955.] 32 pp., processed. Available on request.

4495 Caribbean Commission.
Current Caribbean bibliography. A cumulative list of publications issued in the Caribbean countries of France, Great Britain, the Netherlands, and the United States, 1950-1953. Vol. 3, Nos. 3-4, Dec., 1953. Port of Spain, Trinidad, 1955. 81 pp., processed.
In three sections: Periodicals and newspapers; Government serials; Monographs. With geographical index and directory of publishers. See 19(1):Title 542 for Vol. 1.

4496 Caribbean Commission. Central Secretariat.
Demography and finance. Démographie et finances. Caribbean Statistical Digest, general series, first issue, Port of Spain, 1952. c. 200 pp.
"Contains a bibliography of selected statistical sources on population." [I.A.S.I. 13(46)]

4497 The Council of the British National Bibliography, Ltd.
The British national bibliographic annual volume 1954. Edited by A.J. Wells. London, The Council..., 1955. 1040 pp.
Sections on demography and statistics of special countries.

4498 Ferguson, John A.
Bibliography of Australia. Vol. IV. 1846-1856. Sydney, London, Angus and Robertson, 1955. xiv, 732 pp.
Topics include: Emigration; Immigration; Population; Births, deaths and marriages; Census.

4499 Field, Henry.
Bibliography on southwestern Asia, II. A second compilation. Coral Gables, University of Miami Press, 1955. xviii, 126 pp., processed.
Section on anthropogeography includes items on population.

4500 U.S. Department of Agriculture. Library.
Low-income farm people: a selected list of references. Compiled by Elizabeth Gould Davis. Library List No. 62. Washington, 1955. 46 pp., processed.
Topical sections include Migration out of agriculture (106 items).

4501 U.S. National Archives.
Federal population censuses, 1840-80. A price list of microfilm copies of the original schedules. National Archives Publication, No. 55-57. Washington, The National Archives, National Archives and Records Service, General Services Administration, 1955. vi, 74 pp.

[See also Titles 4022, 4032, 4067, 4240, 4273, 4306, 4343, 4412]

R. NEW PERIODICALS

4502 Argentina. Instituto Etnico Nacional.
Boletin del.... Vol. 1, No. 1. March, 1954. Buenos Aires.

4503 University of London. Institute of Education. Department of Education in Backward Areas.
African Women. Vol. 1, No. 1. Dec., 1954. Semi-annual.
"This periodical collates reports and articles on, and references to, the advancement of women in Africa."

S. OFFICIAL STATISTICS

NORTH AMERICA

Canada

4504 Canada. Dominion Bureau of Statistics.
Ninth census of Canada 1951. Neuvième recensement du Canada. Vol. XI. Administrative report. Rapport administratif. Ottawa, Queen's Printer, 1955. 292 pp., folding map.
Introduction [history of census taking in Canada; changes in the scope of the census; authority for taking the census; the census under the British North American Act; wider uses of the census; cooperation with international agencies].
Chapters: The planning; The field enumeration; Comparative checks; Regional office processing; Mechanical techniques; The tabulation programme; Preparation and publication of results.
Appendixes (specimen forms; bibliographical list; text of Act; etc.). Charts and maps.
The discussion includes the taking of the censuses of distribution, agriculture, fishery, and housing, as well as of population.

Costa Rica

4505 Costa Rica. Dirección General de Estadística y Censos.

Yearbook of the General Statistical Office, 1950. (Anuário de la Dirección General de Estadística. Año 1950.) San José, Imprenta Nacional, 1953. x, 636 pp.

Demographic section includes data on vital statistics and migration.

Nicaragua

4506 Nicaragua. Dirección General de Estadística y Censos.

General census of the population of Nicaragua, 1950. (Censo general de población de la República de Nicaragua, 1950.) Managua, D.N., Talleres Nacionales, 1951-.

For Vols. I-IV, see 20(3):Title 1137.

Vol. XVII. General report and statistics for Nicaragua. (Informe general y cifras de la República de Nicaragua.) 472 pp. ["Includes a copy of the schedule." P.F.C.]

Panama

4507 Panama. Dirección de Estadística y Censo.

Fifth census of population and housing, December 10, 1950. (Quinto censo nacional de población y vivienda, 10 de diciembre de 1950.) Panama, 1954-.

Vol. I. General characteristics. (Caracteristicas generales.) 1954. xxxvi, 332 pp. [Data by provinces and districts on numbers, growth and density, urban and rural residence, race, sex, age, place of birth, nationality, languages, marital status, fertility, and electoral population.]

Vol. II. Educational characteristics. (Caracteristicas educativas.) 1954. xx, 300 pp. [Data by provinces and districts on literacy, school attendance, and educational attainment, by age groups and sex.]

Trinidad and Tobago

4508 Trinidad and Tobago. Central Statistical Office.

Population and vital statistics. Annual report for the year 1953. Port of Spain, Govt. Printing Office, 1955. vi, 70 pp.

"This is the first annual report on vital statistics issued by the Statistical Office; since no changes were made in 1953 to the information collected on vital events, this report does not differ substantially in form and content from reports prepared in previous years [by the Registrar General]." Deaths by sex, age, cause.

United States

4509 U.S. Bureau of the Census.

U.S. Census of Population: 1950. Vol. IV. Special reports. Part 1. Chapter D. Industrial characteristics. Washington, Govt. Printing Office, 1955. [iv], 82 pp. [P-E No.1D]

"This report presents detailed statistics on the social and economic characteristics of the workers in each industry in the United States. Among the characteristics shown are urban-rural residence, race, age, major occupation group, hours worked, weeks worked, and income. This report also presents statistics on race, age, hours worked, and weeks worked for persons in each of the four class-of-worker categories, i.e., private wage and salary workers, government workers, self-employed workers, and unpaid family workers. The data are based on tabulations of a 3 1/3 percent sample of the returns obtained in the Seventeenth Decennial Census...."

4510 U.S. Bureau of the Census.

United States Census of Population: 1950. Vol. IV. Special reports. Part 2. Chapter E. Duration of current marital status. Washington, Govt. Printing Office, 1955. iv, 52 pp. [P-E No.2E]

Data from the sample tabulation of census returns, on characteristics of women in the United States in 1950 who had ever been married, classified by duration of, and age at, first marriage, remarriage, separation, widowhood, divorce. Data also on number of children ever born, years of school completed, and labor-force status.

4511 U.S. Bureau of the Census.

United States Census of Population: 1950. Vol. IV. Special reports. Part 5. Chapter C. Fertility. Washington, Govt. Printing Office, 1955. iv, 184 pp., processed. [P-E No.5C]

Data from the sample tabulation of census returns, on the fertility of women in the United States. Number of children ever born to women aged 15-59, classified by: residence; age; marital status and number of times married; duration of marriage; race, color, and nativity; Spanish surname; years of school completed; labor-force status; major occupation group. Also: the number of own children under 5 years per 1000 women 15-49; the percentage of women married in the sample; estimates of standard error. Text, tables, figures.

4512 U.S. Bureau of the Census.

Current Population Reports. Series P-28. Special censuses. Special census of

[specified city or area]. Washington, 1947-.

No. 806. Special censuses conducted by the Bureau of the Census between January 1, 1955, and March 31, 1955. May 26, 1955. 2 pp. [This is the first of a series of quarterly summaries of the results of special censuses. For special censuses conducted subsequent to March 31, 1955, a separate series of P-28 reports will be issued for areas having 50,000 inhabitants or more; data on the results of censuses of smaller areas will appear only in the quarterly summary. National summary data on special censuses conducted between April 1, 1950, and December 31, 1954, are available in Reports Nos. 419, 470, 604, and 760 of Series P-28.]

4513 U.S. National Office of Vital Statistics.

Monthly Vital Statistics Report. Provisional statistics on births, marriages, and deaths for [month]; with data on causes of death and on divorces for [preceding month]. Washington, 1952-.

Vol. 4, No. 6, for June 1955, was issued August 16, 1955. 8 pp.

4514 U.S. National Office of Vital Statistics.

Vital statistics of the United States, 1952. Vol. I. Introduction and summary tables. Tables for Alaska, Hawaii, Puerto Rico, and Virgin Islands. Marriage, divorce, natality, fertility, mortality, and infant mortality data. Washington, Govt. Printing Office, 1955. LXIV, 335 pp. For Vol. II, see 21:Title 3387.

4515 U.S. National Office of Vital Statistics.

Vital Statistics — Special Reports. Vol. 39. Selected studies. Washington, 1954-.

Nos. 1-4. See 21:Title 2399.

No. 5. Economic characteristics of recently married persons: United States, April 1953. By Hugh Carter and Sarah Lewit. Aug. 17, 1955. Pp. 187-219.

4516 U.S. National Office of Vital Statistics.

Vital Statistics — Special Reports. Vol. 40. National summaries [1952]. Washington, 1954-.

Nos. 1-12. See 21:Title 3385.

No. 13. Infant and maternal mortality statistics: United States, 1952. June 30, 1955. Pp. 261-280.

4517 U.S. National Office of Vital Statistics.

Vital Statistics — Special Reports. Vol. 42. National summaries [1953]. Washington, 1955-.

No. 1. See 21:Title 3386.

No. 2. Divorces and annulments: detailed statistics for reporting areas, 1953. May 17, 1955. Pp. 25-42.

No. 3. Marriages and divorces: each state and territory and specified possessions, 1953. June 3, 1955. Pp. 43-54.

No. 4. Mortality from each cause: United States, 1951-53. June 20, 1955. Pp. 55-86.

No. 5. Marriages: detailed statistics for reporting areas, 1953. July 14, 1955. Pp. 87-118.

No. 6. Mortality from selected causes: each state and territory and specified possessions, 1953. Aug. 30, 1955. Pp. 119-139.

4518 U.S. Bureau of the Census.

Current Population Reports. Series P-20. Population characteristics. Washington, 1947-.

Nos. 1-57. See 21:Title 3389.

No. 58. Civilian population by age and sex, for the United States, urban and rural: April 1954 and April 1950. May 13, 1955. 3 pp.

No. 59. Households and families, by type: 1947 to 1955. Aug. 12, 1955. 4 pp.

No. 60. County of work and county of residence: September 1954. Aug. 17, 1955. 4 pp.

4519 U.S. Bureau of the Census.

Current Population Reports. Series P-57. Labor force. The monthly report on the labor force.... Washington, 1947-.

No. 157, for July 1955, appeared in August. 11, [iv] pp. ["Beginning with the estimates for July 1955, the reference week for the Current Population Survey of the Bureau of the Census has been changed to the week ending nearest the 15th of the month; formerly, it had been the week containing the 8th of the month. The new time reference will avoid certain major holidays which occasionally affected the hours data in these reports, and will eliminate one source of difference with series based on establishment payroll reports, which generally relate to the payroll period ending nearest the 15th of the month."]

4520 U.S. Bureau of the Census.

Current Population Reports. Series P-60. Consumer income. Washington, 1948-.

Nos. 1-16. See 21:Title 3388.

No. 17. Income of persons in 1954 equals 1953 level. Aug., 1955. 2 pp. [Advance data, April 1955 sample survey.]

4521 U.S. Immigration and Naturalization Service.

Annual report of the Immigration and Naturalization Service, Washington, D.C., for the fiscal year ended June 30, 1954. Washington, n.d. 66 pp., 49 tables, processed.

SOUTH AMERICA

Brazil

4522 Brazil. Serviço Nacional de Recenseamento.

Sixth general census of Brazil, 1950. Vol. XXI, Part 1. Regional series. Population census for [name of state]. (VI recenseamento geral do Brasil, 1950. Vol. XXI, Tomo 1. Série regional. Censo demográfico.) Rio de Janeiro, 1954-.

Estado de Minas Gerais. 1954. 286 pp. plus specimen form.

Estado de São Paulo. 1954. 266 pp. plus specimen form.

Population numbers, demographic, economic, and social characteristics, and family composition, by small administrative divisions.

Chile

4523 Chile. Instituto de Asuntos Interamericanos. Servicio Nacional de Estadística y Censos.

Preliminary results of the census (12th of population, 1st of housing) for the Agricultural and Rural Health Development Plan of Maule, Nuble, and Concepción. (Resultados preliminares del censo (12 de población, 1 de vivienda) para el Plan de Desarrollo Agrícola e Higiene Rural de Maule, Nuble y Concepción.) [Santiago, 1955]. 22 pp. [P.F.C.]

Colombia

4524 Colombia. Departamento Administrativo Nacional de Estadística.

Population census of May 9, 1951. Part 1. Department of Chocó. (Censo de población de 1951, mayo 9. Parte 1. Departamento del Chocó.) Bogotá, March, 1955. 144 pp.

Density, growth, comparative data, demographic and social characteristics. Tables, charts, and maps.

Ecuador

4525 Ecuador. Dirección General de Estadística y Censos.

First population census of Ecuador, 1950. (Primer censo de población del Ecuador, 1950.) Quito, 1954-.

Vol. I. Population by age and sex. (Vol. I. Población por edad y sexo.) 1954. [viii], 320 pp., processed. [Data on total population by age and sex for the minor political divisions. Age tables by single years to age 24 and by 5-year intervals to age 95. Explanatory text and graphs.]

Vol. III. Population by marital status. (Vol. III. Población por estado civil.) 1954. 137 pp.

Venezuela

4526 Venezuela. Dirección General de Estadística y Censos Nacionales.

Statistical yearbook of Venezuela, 1951. (Anuario estadístico de Venezuela, 1951.) Caracas, Bello Monte, 1954. 591 pp.

EUROPE

Finland

4527 Finland. Tilastollinen Päätoimisto.

Statistical yearbook of Finland, 1954. Suomen tilastollinen vuosikirja. Statistisk årsbok för Finland. Helsinki, 1955. 452 pp. With English and French titles.

Section on population includes life tables for Finland 1931-35, 1931-40, 1936-40, 1941-45, 1946-50, and projections by G. Modeen and Gunnar Fougstedt (first published 1939).

France

4528 France. Institut National de la Statistique et des Etudes Economiques.

Statistics of population change, 1946 and 1947. Vol. XXIII. Marriages, divorces, births, deaths. Part I. (Statistique du mouvement de la population, années 1946 et 1947. Tome XXIII. Mariages, divorces, naissances, décès. Première partie.) Paris, Imprimerie Nationale et Presses Universitaires de France, 1953. 207 pp.

For Part II, Les causes de décès, années 1946 et 1947, see 17(4):Title 1833.

Germany

4529 Germany. Federal Republic. Statistisches Bundesamt.

The residents in dwellings and in lodgings in the Federal Republic, 1950. (Die Bewohner in Wohnungen und in Unterkünften ausserhalb von Wohnungen in der Bundesrepublik Deutschland, 1950.) Statistik der

Bundesrepublik Deutschland, Band 41. Stuttgart-Köln, 1955. 166 pp., 2 folding maps.

4530 Germany. Federal Republic. Statistisches Bundesamt.
Nuptiality, births, and deaths in 1954. (Eheschliessungen, Geburten und Sterbefälle im Jahre 1954.) Wirtschaft und Statistik 7(5):245-246. May, 1955.

4531 Germany. Federal Republic. Statistisches Bundesamt.
Health conditions. Statistics of 1953. (Gesundheitswesen. Statistische Ergebenisse 1953.) Statistik der Bundesrepublik Deutschland, Band 127. Stuttgart-Köln, 1955. 187 pp.
Data presented include sections on demographic characteristics, mortality by cause and by age.

4532 Germany. Federal Republic. Statistisches Bundesamt.
Vital statistics, 1953. (Die natürliche Bevölkerungsbewegung im Jahre 1953.) Statistik der Bundesrepublik Deutschland, Band 122. Stuttgart-Köln, 1955. 66 pp.
Tables, maps, charts, text.

4533 Germany. Federal Republic. Hesse. Statistisches Landesamt.
Population changes in Hesse, 1952-53. Marriages, births, deaths, and divorces. (Bevölkerungsvorgänge in Hessen 1952-53. Eheschliessungen, Geburten, Sterbefälle und Ehelösungen.) Beiträge zur Statistik Hessens, 68. Nov., 1954. XVIII, 60, 4 pp., processed.

4534 Germany. Federal Republic. Statistisches Bundesamt.
Statistical yearbook for the German Federal Republic, 1955. (Statistisches Jahrbuch für die Bundesrepublik Deutschland 1955.) Stuttgart-Köln, 1955. 900 pp.°

4535 Germany. Federal Republic. Statistisches Bundesamt.
The displaced persons and refugees in the German Federal Republic, 1946-1953. (Die Vertriebenen und Flüchtlinge in der Bundesrepublik Deutschland in den Jahren 1946 bis 1953.) Statistik der Bundesrepublik Deutschland, Band 114. Stuttgart-Köln, 1955. 168 pp.

4536 Germany. Federal Republic. Statistisches Bundesamt.
Migration in 1953. (Die Wanderungen im Jahre 1953.) Statistik der Bundesrepublik Deutschland, Band 123. Stuttgart-Köln, 1955. 88 pp.
Text, maps, tables, charts.

Ireland (Republic)

4537 Ireland. Central Statistics Office.
Irish statistical survey 1954. Dublin, Stationery Office, 1955. 68 pp., processed.
Section on level and movement of population summarizes annual data for recent years on births, deaths, marriages, natural increase.

Italy

4538 Italy. Istituto Centrale di Statistica.
Ninth general census of population, November 4, 1951. (IX censimento generale della popolazione, 4 novembre 1951.) Rome, 1952-.
Vol. I. Summary data by communes. (Dati sommari per comune.) In addition to those listed in 21:Title 1315, parts for the following provinces have been issued: Brindisi, Belluno, Bologna, Matera, Nuoro, Ravenna, Rieti, Rovigo, Varese. Variously paged.

Netherlands

4539 Netherlands. Centraal Bureau voor de Statistiek.
Statistics to March 1955 and yearly totals 1954. (Cijfers over Maart 1955 en jaaroverzicht 1954.) Maandstatistiek van de Bevolking 3:68-103. June, 1955.
Vital statistics, migration, estimates, demographic characteristics, age pyramids 1945 and 1955, etc.

Switzerland

4540 Switzerland. Eidgenössisches Statistisches Amt. (Bureau Fédéral de Statistique.)
Census of population, December 1, 1950. (Volkszählung 1. Dezember 1950. Recensement fédéral de la population 1er décembre 1950.) Berne, 1952-.
For volumes already cited, see 21:Title 2421.
Band 3. Kanton Appenzell Ausser-Rhoden und Appenzell Inner-Rhoden. 1955. 200 pp.
Band 4. Kanton Basel-Stadt und Basel-Landschaft. 1955. 240 pp.
Vol. 6. Canton de Fribourg. 1955. 150 pp.
Vol. 11. Canton de Neuchâtel. 1955. 185 pp.

United Kingdom

4541 Great Britain. General Register Office, England and Wales.
Census, 1951. England and Wales. Coun-

ty reports. London, H.M. Stationery Office, 1952-.

Reports have been issued for the following counties in addition to those already cited (see 21:Title 3414): Cardiganshire, Merionthshire, Montgomeryshire, Pembrokeshire, Radnorshire. Variously paged.

4542 Great Britain. General Register Office, England and Wales.

Census of 1951, England and Wales. Populations of ecclesiastical areas (England). London, H.M. Stationery Office, 1955. viii, 185 pp., processed.

"The populations enumerated in 1931 and 1951 are given for every ecclesiastical parish and district and every extra-parochial place in England, the Channel Islands, and the Isle of Man."

4543 Great Britain. General Register Office, England and Wales.

Census 1951. Wales (including Monmouthshire). Report on Welsh-speaking population. London, H.M. Stationery Office, 1955. xvi, 32 pp., processed.

Population speaking Welsh (aged 3 and over) by age in counties, rural districts and parishes in 1951 and summary of data from successive censuses. Tables, commentary, maps.

4544 Northern Ireland. General Register Office.

The Registrar General's annual report for 1952; containing general abstracts of births, deaths, and marriages registered in Northern Ireland during the year, together with returns of infectious diseases and meteorological summary. Belfast, H.M. Stationery Office, 1954. 100 pp.°

Yugoslavia

4545 Yugoslavia. Savezni Zavod za Statistiku i Evidenciju.

Final results of the population census of March 15, 1948. (Konačni rezultati popisa stanovništva od 15 marta 1948 godine.) Beograd, 1953-. Titles also in French.

Vols. I-IV, VII, VIII. See 21:Title 3418.

Vol. VI. Population by birthplace. (Stanovništvo po rodnom kraju.) 1955. xlviii, 95 pp., processed.

Vol. IX. Population by ethnic nationality. (Stanovništvo po narodnosti.) 1954. xliv, 494 pp., processed.

4546 Yugoslavia. Savezni Zavod za Statistiku i Evidenciju.

Population census of March 31, 1953. Census rolls according to administrative divisions in the People's Republic of Croatia. (Popis stanovništva 31 marta 1953 godine. Spisak naselja prema administrativnoj podeli N.R. Hrvatske.) Beograd, 1953. 330 pp.°

4547 Yugoslavia. Serbia. Federated Republic. Zavod za Statistiku i Evidenciju.

Statistical regions of Serbia. (Regoni N.R. Srbije.) Zavod za Statistiku i Evidenciju, Serija B., sv. 9. Beograd, 1954. 43 pp. French summary.°

With maps and tables.

4548 Yugoslavia. Slovenia. Federated Republic. Zavod za Statistiko in Evidenco.

Economic structure of the population according to preliminary results of the population census of March 31, 1953. (Gospodarska strukture prebivalstva po prehodnih resultatih popisa prebivalstva z dne 31. marca 1953.) Ljubljana, 1954. 15 pp.°

ASIA

Cyprus

4549 Cyprus. Statistics Office.

Vital and migration statistics 1954. Nicosia, Govt. Printing Office, 1955. vi, 43 pp., processed.

Includes notes on collection of data, rate of increase of population, projection of the population to the year 2000, births, deaths, infant mortality, and migration.

India

4550 India. Registrar General.

Census of India, 1951. Vol. I. India. Part I-B. Appendices to the census report, 1951. New Delhi, Govt. of India Press, 1955. vi, 419 pp.

Appendix I. Population and land use. [Introductory note and table series comparing Indian data with that of the world, Great Britain, United States, U.S.S.R.]

Appendix II. Birth rates and death rates. [Note and tables giving: Mean decennial growth rate during three decades; Computed birth and death rates in India during 1941-50; Birth rates derived from infants enumerated; Logistic graduation of maternity data and derivation of table of age-specific maternity rates.]

Appendix III. Review of census economic data. [Census questions, definitions and classifications; review of data relating to household economic status, agriculture, and cotton textiles.]

Appendix IV. Famine and pestilence. [Tabulation and notes covering the period

1769-1943.]

Appendix V. Shortage of food grains. [Historical survey of consumption rates, foreign trade, and government policy, 1880-1951.]

Appendix VI. Old irrigation projects and irrigation development projects. [Statistical tabulations, region by region.]

Appendix VII. Maternity data and birth control. [Tables include birth and child survival data from the 1951 census and birth rates by order and age of mother from the experimental census of births and deaths, 1952; also note on maternity and child welfare services by T. Lakshiminarayana.]

4551 India. Registrar General.
Census of India, 1951. Vol. I. India. Part II. Economic tables. New Delhi, Govt. of India Press, 1954.

II-B. General population. xxviii, 466 pp. [General introduction and tables of: Livelihood classes and sub-classes; Secondary means of livelihood; Employers, employees and independent workers in industries and services...; Livelihood classes by age groups.]

II-C. Rural and urban population. viii, 456 pp. [Tables of: Livelihood classes and sub-classes; Employers, employees and independent workers in industries and services, for rural and for urban populations separately.]

4552 India. [State.... Superintendent of Census Operations.]
Census of India, 1951. [The final results.] Various places and dates of publication.

In addition to the volumes already cited (see 21:Title 2441), the following has been issued.

IX. Hyderabad. Part I-A. Report. Hyderabad, Govt. Press, n.d. xx, 560 pp.

4553 India. Registrar General.
Census of India, 1951. Papers of 1954. Paper No. 7. Subsidiary tables — 1951 census. Delhi, Govt. of India Press, 1954. [ii], 270 pp.

The series of tables cover: General population; Rural population; Urban population; Agricultural classes; Non-agricultural classes; Families, sexes and number by age groups. The figures are given for India, zones, states, and divisions.

For Papers Nos. 1-6, see 21:Title 2439.

4554 India. West Bengal. State Statistical Bureau.
Statistical atlas of West Bengal. Calcutta, 1953. [v], 3 pp., 41 maps, errata slip.

Data mapped include population density and types of settlement, birth rates, death rates, population change 1941-1951, land use and other economic data. Most are from the population census and sample surveys of 1951.

Japan

4555 Japan. Bureau of Statistics.
Population census of 1950. Vol. V. All Japan. Labor force status, occupation, industry, class of worker. Tokyo, [1954]. 592 pp. In Japanese with English titles.

For Vols. I, II, IV, VI, VII, see 21:Title 2442.

4556 Japan. Ministry of Labor. Division of Labor Statistics and Research.
Yearbook of labor statistics, 1953. [Tokyo], 1954. [xxii], 350 pp. In Japanese and English.

Part II, Employment and unemployment, contains sections: A. Monthly labor and prefectional monthly labor survey; B. Labor force survey; D. Survey of labor turnover.

Nepal

4557 Nepal. Department of Statistics.
Interim report of census. Katmandu, 2011 (1954). 100 pp. In Nepalese.

The census was taken in two phases, the population of eastern Nepal being enumerated in the year 2009 of the Hindu calendar (1952), western Nepal two years later. The volume contains data for districts and subdistricts, including area in square miles, number of villages, houses, and families, total population by sex, and the number of persons present and temporarily absent. Comparisons with the population in earlier years (1941, 1920, and 1910) are also given. The census schedule is reproduced on p. 81. [C. Tietze].

Pakistan

4558 Pakistan. Punjab. Board of Economic Inquiry.
Statistical abstract of the Punjab, 1947-1953. Publication 107. Lahore, Board of Economic Inquiry, 1954. x, 258 pp.°

Philippines

4559 Philippines. Bureau of the Census and Statistics.
Census of the Philippines, 1948. Vol. I. Part 2. Report on provinces for census of population. Bukidnon to Cavite. Manila, Bureau of Printing, 1954. xx, 1111-2289 pp.

For Part 1, see 21:Title 2444.

Turkey

4560 Turkey. Istatistik Umum Müdürlügü.

Statistical yearbook, 1953. (Istatistik villiği. Annuaire statistique 1953.) Vol. 21. Publication No. 360. Ankara, n.d. 580 pp.

Tables 19-67 deal with population: distribution and density; demographic, economic, and social characteristics; nuptiality; mortality; migration.

AFRICA

Algeria

4561 Algeria. Service de Statistique Générale.

Preliminary results of the population census of October 31, 1954. (Résultats provisoires du recensement de la population du 31 octobre 1954.) Alger, Imprimerie Officielle, 1955. 16 pp.

Numbers of families, inhabitants, those separately enumerated, and totals, by communes and arrondissements.

Sudan

4562 Sudan Government. Ministry of Health.

Report of the Medical Services...for the year 1953/54. [Khartoum, 1954]. ii, 62 pp., folding table.

Section on vital statistics (p. 8) reports a series of pilot censuses, on the basis of which revised estimates of the population of provinces and principal towns and crude birth rates for the latter are given.

Union of South Africa

4563 Union of South Africa. Bureau of Census and Statistics.

Population census, May 1951. Home and official languages of the white population. (Bevolkingssensus, Mei 1951. Huis- en amptelike tale van die blanke bevolking.) Special report No. 204. Pretoria, Govt. Printer, 1954. 25 pp.

Compares data of 1951, 1946, 1936.

OCEANIA

Australia

4564 Australia. Bureau of Census and Statistics.

Demography, 1953. Bulletin No. 71. Canberra, 1955. vii, 208, [xii] pp.

Cook Islands

4565 New Zealand. Department of Island Territories.

[Cook Islands. Total population by age and sex and population of each island by race and sex, 1951 census.] P. 54 in: Cook Islands, annual report...1952. Wellington, 1952.°

Niue

4566 New Zealand. Department of Island Territories.

[Niue. Population census, September 1951, by Europeans and Niueans, by villages, and by ages, by sex, compared with results of census of September 1945.] P. 59 in: Cook Islands, annual report...1952. Wellington, 1952.°

INTERCONTINENTAL

4567 World Health Organization.

Annual epidemiological and vital statistics, 1952. Statistiques épidémiologiques et démographiques annuelles. Geneva, 1955. 544 pp.

Parts: 1. Vital statistics and causes of death; 2. Cases of and deaths from notifiable diseases.

See also the following:
Census data - Titles 4058, 4062, 4139, 4226, 4249, 4316, 4331, 4464, 4466, 4501.

Vital statistics data - Titles 4203, 4204, 4246, 4460.

Other primary data - Titles 4271, 4477.

General population studies and theory - 4001-4028; also 4115, 4116, 4126, 4127, 4128, 4136, 4156, 4169, 4190, 4196, 4216, 4230, 4276, 4282, 4317, 4335, 4341, 4343, 4371, 4377, 4382, 4390, 4401, 4410, 4411, 4417, 4418, 4435, 4445, 4457.

Regional population studies:
Historical studies - 4029-4044; also 4004, 4018, 4055, 4087, 4105, 4133, 4137, 4226, 4283, 4342, 4354, 4377, 4399, 4498, 4501.
Regional demography - 4045-4084; also 4130, 4131, 4154, 4157, 4222, 4275, 4330, 4332, 4339, 4370, 4410, 4440, 4537.
Surveys containing demographic material - 4085-4099; also 4100-4102, 4122, 4299, 4314, 4336, 4351, 4382, 4388.

Spatial distribution:
General spatial distribution - 4100-4107; also 4001, 4002, 4007, 4030, 4034, 4039, 4045, 4055, 4077, 4119, 4368, 4455, 4494.
Urban patterns - 4108-4129; also 4004, 4147, 4167, 4314, 4315, 4319, 4320, 4323, 4326, 4364, 4440, 4454, 4467.
Rural patterns - 4130-4132.

Trends in population size:
Past trends - 4133-4138; also 4022, 4048, 4049, 4055, 4057, 4065-4067, 4078, 4087, 4093, 4096, 4117, 4146, 4210, 4330, 4372, 4440.
Estimates - 4139-4146; also 4057, 4078, 4441, 4452.
Projections and predictions - 4147-4164; also 4054, 4057, 4078, 4093, 4096, 4098, 4136, 4140, 4376, 4399, 4443, 4453, 4454, 4457, 4486.

Mortality:
General mortality - 4165-4173; also 4025, 4054, 4157, 4183, 4186, 4187, 4191, 4217, 4403, 4486, 4490.
Prenatal mortality - 4174; also 4177, 4179, 4449.
Infant mortality - 4175-4181; also 4174.
Mortality at other ages - 4182-4187; also 4172, 4194, 4239, 4398.
Life tables - 4188-4194; also 4004, 4527.
Mortality by social and economic groups - 4195, 4196; also 4041, 4174, 4187, 4205.
Mortality by cause - 4197-4209; also 4032, 4170, 4172, 4186, 4187.

Fertility and natural increase:
General fertility - 4210-4225; also 4023, 4028, 4054, 4157, 4177, 4229, 4230, 4237, 4258, 4263, 4412, 4486, 4490, 4511.
Differential fertility - 4226-4236; also 4023, 4054, 4222, 4223, 4263, 4486.
Sterility and other pathology - 4237-4241; also 4174, 4225, 4412.
Fertility controls - 4242-4245; also 4218, 4221, 4223, 4268, 4412.
Natural increase - 4246, 4247; also 4045, 4078.

Marriage, divorce, and the family:
Marriage and divorce - 4248-4259; also 4003, 4054, 4157, 4222, 4262, 4443, 4510, 4515.
The family - 4260-4268; also 4003, 4054, 4141, 4174, 4234, 4248, 4249, 4417-4419, 4490.

International migration:
General - 4269-4288; also 4040, 4049, 4066, 4068, 4078, 4143, 4321, 4377, 4425, 4429, 4430-4433, 4490.
Settlement and resettlement - 4289-4303; also 4038, 4042, 4045, 4275, 4280, 4286, 4311, 4405.
Temporary movements - 4304, 4305.
Refugees - 4306-4313; also 4422, 4427, 4434.

Internal migration:
General - 4314-4327; also 4004, 4033, 4049, 4130, 4131, 4276, 4305, 4446.
Rural-urban movements - 4328, 4329; also 4316, 4319, 4320, 4500.
Settlement and resettlement - 4063, 4293.

Characteristics:
Demographic - 4330-4334; also 4023, 4027, 4048, 4049, 4053, 4054, 4059, 4066, 4067, 4074, 4082, 4087, 4093, 4101, 4122, 4141, 4187, 4196, 4269, 4393, 4464, 4539.
Biological - 4335-4340; also 4012, 4232, 4233, 4490.
Psychological - 4341; also 4490.
Economic - 4342-4357; also 4004, 4055, 4057, 4082, 4093, 4155, 4334, 4369, 4374, 4378, 4380, 4381, 4385, 4387, 4393, 4473, 4474, 4477, 4509, 4518-4520, 4556.
Social - 4358-4360; also 4004, 4082, 4403, 4542.
Ethnic - 4361-4367; also 4004, 4171, 4182, 4275, 4289, 4295, 4315, 4337, 4340, 4353, 4430, 4472, 4543, 4563.

Demographic and economic interrelations:
Demographic factors and resources - 4368-4373; also 4015, 4022, 4026, 4057, 4096, 4132.
Economic growth - 4374-4377; also 4008, 4015, 4026, 4057, 4078, 4104, 4108, 4113, 4151, 4152, 4297, 4323.
Labor force participation - 4378-4386; also 4004, 4111, 4340, 4352, 4398,

4430, 4448, 4456.
Occupation and industry - 4387; also 4095, 4108, 4113, 4125, 4128, 4318, 4329, 4334, 4355, 4356, 4381, 4383.
Business fluctuations - 4388-4392; also 4125.
Economic dependency - 4393-4398; also 4074, 4310.
Other economic variables - 4399-4402; also 4125, 4163, 4231.

Other interrelations:
Demographic and social factors - 4403-4405; also 4003, 4004, 4011, 4073, 4088, 4110, 4115, 4118, 4120, 4125, 4173, 4221, 4256, 4360.
Demographic and political factors - 4406; also 4022, 4029, 4405.

Policy:
General population policy - 4407-4410; also 4067, 4072, 4075, 4267, 4426.
Measures affecting fertility - 4411-4421; also 4011, 4092, 4218, 4244, 4267, 4408.
Policy on internal redistribution - 4022, 4317, 4328.
Policy on international migration - 4422-4434; also 4078, 4276, 4302, 4306, 4307, 4312.
Policy on quality - 4435-4439; also 4338, 4395.

Methods of research and analysis - 4440-4457; also 4001-4003, 4025, 4078, 4103, 4108, 4113, 4114, 4116, 4128, 4137, 4150, 4156, 4169, 4170, 4190-4192, 4194, 4205, 4210, 4257, 4266, 4282, 4283, 4287, 4325, 4333, 4340, 4382, 4391, 4399, 4412, 4458, 4464, 4477.

Organization and administration:
Registration of vital statistics - 4458-4463; also 4004, 4222, 4223, 4251.
Population censuses and registers - 4464-4472; also 4004, 4031, 4226, 4354, 4461, 4462, 4504.
Other data collecting and processing - 4473-4478; also 4004, 4223, 4287, 4461, 4462.

Professional meetings and conferences - 4479-4493; also 4004, 4080, 4085, 4277, 4301, 4322, 4398, 4413, 4425.

Bibliographies - 4494-4501; also 4022, 4032, 4067, 4240, 4273, 4306, 4343, 4412.

New periodicals - 4502, 4503.

Official statistics:
Census data - 4504, 4506, 4507, 4509-4512, 4522-4525, 4529, 4538, 4540-4543, 4545, 4546, 4550, 4551-4553, 4555, 4557, 4559, 4561, 4563, 4565, 4566; also 4058, 4062, 4139, 4226, 4249, 4316, 4331, 4464, 4466, 4501.
Vital statistics - 4505, 4508, 4513-4517, 4528, 4530-4533, 4537, 4539, 4544, 4549, 4562, 4564, 4567; also 4203, 4204, 4246, 4460.
Yearbooks - 4505, 4526, 4527, 4534, 4549, 4556, 4558, 4560.
Other primary data - 4518-4521, 4535, 4536, 4547, 4548, 4550, 4554; also 4271, 4477.

GEOGRAPHICAL INDEX

In this index the listing of item numbers has been subdivided by topic only in the case of the United States. For the other areas, the identification of the topics may be facilitated by a quick comparison of the numbers listed under the desired areal heading with the range of the item numbers on the desired topic, as indicated in the immediately preceding subject index.

NORTH AMERICA

North America - 4134.
Central America - 4291.
Alaska - 4305.
Canada - 4098, 4141, 4200, 4301, 4365, 4366, 4466, 4504.
Costa Rica - 4300, 4505.
Cuba - 4051.
El Salvador - 4175.
French West Indies - 4052.
Guatemala - 4013.
Haiti - 4460.
Honduras - 4061.
Jamaica - 4266, 4283.
Mexico - 4241.
Nicaragua - 4506.
Panama - 4507.
Puerto Rico - 4143, 4254, 4286, 4327, 4385, 4386, 4421.
Trinidad and Tobago - 4508.
United States:
General Population Studies and Theory - 4003, 4004, 4007, 4127, 4377.
Regional Studies - 4004, 4030, 4032, 4038, 4042, 4057, 4082, 4086, 4093, 4095-4097, 4099, 4137, 4226, 4377, 4388, 4501.

United States (cont.):
Spatial Distribution - 4004, 4007, 4030, 4103, 4104, 4107, 4108, 4113, 4124, 4125, 4127, 4129, 4147, 4315, 4319, 4320, 4323, 4326, 4364, 4454, 4494.
Size Trends - 4057, 4093, 4096, 4137, 4138, 4140, 4144-4147, 4150, 4155, 4158, 4161-4163, 4372, 4376, 4441, 4452, 4454.
Mortality - 4004, 4032, 4165, 4166, 4179, 4182, 4185, 4193, 4194, 4200, 4201, 4207, 4398.
Fertility - 4213, 4215, 4219, 4221, 4226, 4236, 4238, 4258, 4263, 4511.
Marriage, Divorce, and the Family - 4003, 4250, 4251, 4256, 4258, 4262, 4263, 4510, 4515.
International Migration - 4038, 4042, 4305, 4377, 4405, 4429, 4432, 4433.
Internal Migration - 4044, 4305, 4315, 4318-4320, 4323, 4324, 4326, 4327, 4329, 4446, 4500.
Characteristics - 4004, 4059, 4082, 4093, 4155, 4182, 4315, 4334, 4340, 4345, 4349, 4353, 4356-4358, 4360, 4364, 4374, 4378, 4509, 4518-4520.
Economic Interrelations - 4004, 4057, 4095, 4096, 4104, 4108, 4113, 4125, 4163, 4318, 4323, 4329, 4334, 4340, 4356, 4372, 4375-4378, 4383, 4388, 4389, 4391, 4392, 4398, 4400.
Other Interrelations - 4003, 4004, 4125, 4221, 4256, 4360, 4404-4406.
Policies - 4429, 4432, 4433.
Methods - 4003, 4103, 4108, 4113, 4137, 4150, 4194, 4340, 4391, 4441, 4446, 4447, 4452, 4454.
Organization - 4004, 4226, 4251, 4465, 4470.
Professional Meetings and Conferences - 4004, 4398.
Bibliographies - 4032, 4494, 4500, 4501.
Official Statistics - 4226, 4501, 4509-4521.
Regions:
Middle Atlantic - 4327.
South - 4086, 4104, 4353, 4388, 4446.
Southwest - 4340.
States:
California - 4032, 4140, 4163.
Colorado - 4096.
Connecticut - 4158.
Florida - 4097, 4327.
Illinois - 4150.
Nebraska - 4082, 4250.
New Jersey - 4158.
New Mexico - 4030.
New York - 4383.
North Dakota - 4093.
Oregon - 4032.
South Carolina - 4356.
South Dakota - 4372.
Texas - 4161.
Virginia - 4095.
Wyoming - 4099.
Counties:
Madison, N.Y. - 4226.
Cities:
Chicago, Ill. - 4147, 4150.
Detroit, Mich. - 4215.
Hamtramck, Mich. - 4405.
Los Angeles, Calif. - 4213.
New York, N. Y. - 4158, 4179, 4358.
Norristown, Pa. - 4318-4320.
Trenton, N. J. - 4364.

SOUTH AMERICA

Argentina - 4279, 4290, 4330, 4502.
Bolivia - 4331.
Brazil - 4048, 4049, 4133, 4148, 4149, 4188, 4199, 4212, 4281, 4289, 4292, 4325, 4332, 4333, 4342, 4344, 4362, 4522.
Chile - 4440, 4523.
Colombia - 4524.
Ecuador - 4525.
Venezuela - 4296, 4526.

EUROPE

Europe - 4253, 4276, 4281, 4287, 4369, 4423, 4425, 4438.
Scandinavia - 4281.
Western Europe - 4027, 4029, 4083, 4168.
Austria - 4197, 4198.
Belgium - 4249, 4477.
Bulgaria - 4313.
Czechoslovakia - 4014.
Denmark - 4202, 4477.
Finland - 4203, 4527.
France - 4031, 4033, 4035-4037, 4058-4060, 4066, 4075, 4112, 4114, 4116, 4121, 4131, 4132, 4157, 4196, 4204, 4209, 4274, 4275, 4293, 4316, 4368, 4428, 4430, 4477, 4528.
Germany. Democratic Republic - 4475.
Germany. Federal Republic - 4109, 4117, 4126, 4135, 4176, 4224, 4246, 4268, 4308-4310, 4328, 4381, 4417, 4477, 4529-4536.
Hungary - 4062.
Ireland - 4281, 4285, 4426, 4537.
Italy - 4039, 4065, 4101, 4130, 4153, 4154, 4159, 4160, 4174, 4180, 4181, 4211, 4217, 4228, 4240, 4247, 4257, 4259, 4260, 4267, 4273, 4276, 4282, 4300, 4317, 4343, 4346, 4351, 4354, 4374, 4379, 4382, 4397, 4448, 4455, 4477, 4538.
Netherlands - 4010, 4078, 4089, 4105, 4128, 4177, 4186, 4187, 4191, 4216, 4235, 4255, 4278, 4477, 4539.
Norway - 4477.
Poland - 4361.

Portugal - 4192.
Saar - 4055.
Spain - 4018, 4064, 4271, 4303, 4366.
Sweden - 4011, 4038, 4164, 4170, 4237, 4355, 4412, 4477.
Switzerland - 4206, 4214, 4239, 4436, 4437, 4540.
United Kingdom:
Great Britain - 4019, 4042, 4053, 4054, 4114, 4229, 4264, 4402, 4456, 4459, 4477.
England and Wales - 4178, 4183, 4184, 4195, 4196, 4205, 4395, 4399, 4464, 4541-4543.
England - 4227, 4542.
Northern Ireland - 4544.
Scotland - 4034, 4087, 4172, 4234, 4394, 4419.
Wales - 4541, 4543.
Yugoslavia - 4022, 4067, 4076, 4139, 4478, 4545-4548.

U. S. S. R.

U. S. S. R. - 4063, 4142, 4314, 4363, 4367, 4396, 4415.

ASIA

Asia - 4005.
Southeast Asia - 4288.
Southwest Asia - 4499.
Burma - 4468.
Ceylon - 4023, 4040, 4041.
China - 4081, 4152.
Cyprus - 4549.
India - 4040, 4046, 4088, 4092, 4102, 4120, 4151, 4167, 4210, 4218, 4223, 4230, 4231, 4242, 4245, 4270, 4284, 4352, 4384, 4387, 4407, 4409, 4410, 4416, 4449, 4550-4554.
Israel - 4045, 4269, 4294, 4295, 4307.
Japan - 4044, 4071, 4072, 4080, 4225, 4232, 4233, 4244, 4289, 4335, 4348, 4370, 4407, 4408, 4555, 4556.
Lebanon - 4090.
Nepal - 4557.
Pakistan - 4122, 4270, 4387, 4407, 4409, 4558.
Philippines - 4559.
Singapore - 4220.
Turkey - 4050, 4056, 4313, 4560.

AFRICA

Africa - 4085, 4100, 4252, 4503.
North Africa - 4274, 4295.
Algeria - 4068, 4079, 4275, 4561.
Belgian Congo - 4070.
British East Africa - 4297.
British West Africa - 4077.
Cape Verde Islands - 4069.
Egypt - 4008.
French West Africa - 4118.
Madagascar - 4270.
Morocco (French) - 4248, 4299, 4350.
Nigeria - 4119, 4467.
Northern Rhodesia - 4302.
Southern Rhodesia - 4302.
Sudan - 4562.
Tanganyika - 4091.
Tunisia - 4047.
Uganda - 4380.
Union of South Africa - 4284, 4563.

OCEANIA

Australia - 4023, 4073, 4189, 4272, 4393, 4424, 4498, 4564.
Cook Islands - 4565.
Fiji Islands - 4171.
Hawaii - 4074, 4339.
New Caledonia - 4094.
New Zealand - 4321.
Niue - 4566.
Polynesia - 4043.

OTHER REGIONAL CLASSIFICATIONS

World - 4015, 4084, 4106, 4371, 4373.
Intercontinental - 4115, 4123, 4173, 4208, 4243, 4277, 4304, 4306, 4311, 4322, 4338, 4347, 4413, 4420, 4422, 4427, 4431, 4434, 4463, 4471-4474, 4567.
American Nations - 4276, 4461.
British Commonwealth - 4280.
Caribbean - 4222, 4298, 4495, 4496.

AUTHOR INDEX

- A -

Aagesen, Aage - 4289.
Agarwala, S. N. - 4210.
Åkerrén, Y. - 4237.
Aki, Koichi - 4370.
Aldama C., Alvaro - 4175.
Alexander, Chester - 4403.
Algeria. Service de Statistique Générale - 4561.
Allain, M. - 4293.
Allen, Gordon - 4435.
Allison, Anthony - 4337.
Alves Martins, C. M. - 4001, 4002.
American Sociological Society - 4003.
American Statistical Association - 4004.

Anderson, Anton H. - 4082.
Anderson, W. E. - 4290.
Andrade, Ovídio de, Jr. - 4342.
Argentina. Instituto Etnico Nacional - 4330, 4502.
Armstrong, C. M. - 4004.
Aron, Raymond - 4005.
Augustinus, Rogelio M. - 4061.
Australia. Commonwealth Bureau of Census and Statistics - 4564.
Austria. Statistisches Zentralamt - 4197, 4198.
Averanga, Asthenio - 4331.

- B -

Bachi, R. - 4269.
Bachrach, Arthur J. - 4086.
Baker, W. J. - 4378.
Balaban, Vojislav - 4139.
Balogh, Elemér - 4306.
Banks, A. Leslie - 4085.
Barclay, R. S. - 4087.
Baron, A. M. - 4248.
Baron, R. - 4270.
Bash, Wendell H. - 4226.
Bates, Marston - 4006.
Batschelet, C. E. - 4004.
Baumgarten, Franziska - 4341.
Beall, John W. - 4388.
Beaujeau-Garnier, J. - 4100.
Beauverger, M. de - 4422.
Beckerman, Anita R. - 4137.
Beggs, Walter K. - 4082.
Behrendt, Richard F. - 4291.
Belgium. Institut National de Statistique - 4249.
Bellettini, Athos - 4101, 4343.
Benjamin, B. - 4399, 4464, 4486.
Bianchini, Mario - 4045.
Biehl, Max - 4314.
Bierschenk, Theodor - 4361.
Blacker, C. P. - 4242.
Blackwell, Gordon W. - 4086.
Blake, Judith - 4266.
Blumberg, Godfrey - 4213.
Boak, Arthur E. R. - 4029.
Bocaz S., Albino - 4440.
Böckli, Hans R. - 4436.
Bogue, Donald J. - 4113, 4147, 4494.
Boldrini, Marcello - 4211.
Bolletino Quindicinale dell'Emigrazione - 4271.
Bonnicel - 4293.
Borhegyi, Stephan F. de - 4030.
Borrie, W. D. - 4272.
Bose, Ashish - 4046.
Boulton, E. A. - 4393.
Boyer Banse, L. - 4047.
Brainerd, C. P. - 4004.
Brazil. Conselho Nacional de Estatística - 4048, 4049, 4133, 4148, 4149, 4188, 4199, 4212, 4332, 4333, 4344, 4362, 4479.
Brazil. Serviço Nacional de Recenseamento - 4522.
Brennan, T. - 4394.
Brice, W. C. - 4050.
Brickell, Henry M. - 4004.
Brink, Edward L. - 4334.
Brown, Hugh H. - 4441.
Buschmann, K. H. - 4102.

- C -

California. State Department of Finance - 4140.
Canada. Dominion Bureau of Statistics - 4141, 4504.
Cannon, Kenneth L. - 4250.
Caparrós, Rogelio - 4051
Cappelletti, Fausto - 4292.
Caribbean Commission - 4495.
Caribbean Commission. Central Secretariat - 4496.
Carter, Hugh - 4251, 4515.
Centers, Richard - 4213.
Centre Européen d'Etudes de Population - 4423.
Chatelain, A. - 4031.
Chatten, S. J. R. - 4189.
Chevalier, Louis - 4404.
Chile. Instituto de Asuntos Interamericanos. Servicio Nacional de Estadística y Censos - 4523.
Clark, Colin - 4374.
Clark, Philip J. - 4103.
Clough, Shepard B. - 4375.
Cochran, William G. - 4442.
Coe, Paul E. - 4315.
Cohen, Henry - 4004, 4465.
Cohen, Morris - 4389.
Cointet, A. - 4052.
Colombia. Departamento Administrativo Nacional de Estadística - 4524.
Colombo, Bernardo - 4443.
Colpitts, R. V. - 4238.
Comay, Michael - 4307.
Confederazione Italiana Sindacati Lavoratori - 4379.
Cook, S. F. - 4032.
Cosmo, Giandomenico - 4273.
Costa Rica. Dirección General de Estadística y Censos - 4505.
Council for Technological Advancement - 4345.
Council of the British National Bibliography, Ltd. - 4497.
Cox, Peter R. - 4053, 4054.
Crampon, L. J. - 4096.
Crosetti, Albert H. - 4452.
Cullen, T. J. V. - 4200.
Cutler, Sidney J. - 4201.
Cuzzort, Raymond P. - 4108.
Cyprus. Statistics Office - 4549.

- D -

Dallas, K. M. - 4424.
Dandekar, Kumundini - 4223.
Daric, Jean - 4055.
Darkot, Besim - 4056.
Darling, F. Fraser - 4087.
Darrouy, H. - 4274.
Davidson, Sir Andrew - 4025.
Davis, Elizabeth G. - 4500.
Deardorff, Neva F. - 4358.
Delaspre, Suzanne - 4033.
Delladio, A. - 4359.
Denmark. Sundhedsstyrelsen - 4202.
Devereux, George - 4243.
Dewdney, John C. - 4034.
Dewhurst, J. F. - 4057.
Dodd, Stuart D. - 4007.
Dorjahn, V. R. - 4252.
Doroghi, Ervin - 4253.
Dube, S. C. - 4088.
Ducoff, Louis J. - 4044.
Duncan, Beverly - 4444.
Duncan, Otis Dudley - 4150, 4444.

- E -

East African Statistical Department - 4380.
Eastern Economist - 4151.
Eckler, A. Ross - 4004.
Eckstein, Alexander - 4152.
Ecuador. Dirección General de Estadística y Censos - 4525.
Edding, Friedrich - 4308.
Egner, Erich - 4411.
Eiriksson, Benjamin H. J. - 4390.
Ekblad, Martin - 4412.
Evans, Francis C. - 4103.
Evers, Hans - 4109.

- F -

Fasler, Samuel - 4214.
Federal Reserve Bank of Dallas - 4376.
Federici, Nora - 4130, 4153, 4154, 4346.
Ferguson, John A. - 4498.
Festy, Octave - 4035-4037.
Field, Henry - 4499.
Fink, L. - 4407.
Finland. Tilastollinen Päätoimisto - 4203, 4527.
Fiorelli, Sergio - 4260.
Fisher, Robert M. - 4110.
Fleisher, Eric W. - 4038.
Florence, P. Sargant - 4111.
Folkers, J. U. - 4328.
Food and Agriculture Organization of the United Nations - 4347.
Ford, P. - 4227.
Ford, Thomas R. - 4185.
Foundation for the Research of the Population of the Zuyderzeepolders - 4089.
France. Institut National d'Etudes Démographiques - 4275.
France. Institut National de la Statistique et des Etudes Economiques - 4058, 4204, 4316, 4528.
France. Union Nationale des Caisses d'Allocations Familiales - 4293, 4480.
Fréchet, M. - 4112.
Freedman, Ronald - 4215.
Freire, Rémy - 4134.
Friedman, John R. P. - 4104.
Frisén, Carl M. - 4140.
Fromont, Pierre - 4008.

- G -

García-Frías, Roque - 4458.
Garfinkle, Stuart - 4155.
Gaudefroy-Demombynes, Maurice - 4261.
Gay, F. G. - 4368.
George, Pierre - 4363, 4445.
Germany. Federal Republic. Hesse. Statistisches Landesamt - 4533.
Germany. Federal Republic. Nordrhein-Westfalen. Statistisches Landesamt - 4135.
Germany. Federal Republic. Statistisches Bundesamt - 4176, 4246, 4529-4532, 4534-4536.
Gigli, Fernanda - 4039.
Gil, B. - 4269, 4294, 4295.
Gini, Corrado - 4276, 4317.
Giurovitch, Gualterio - 4228.
Glatzl, E. - 4309.
Glick, Paul C. - 4262, 4360.
Goldstein, M. S. - 4182.
Goldstein, Sidney - 4004, 4318-4320.
Great Britain. General Register Office, England and Wales - 4541-4543.
Great Britain. Lord High Chancellor - 4459
Grebenik, E. - 4486.
Gregg, Alan - 4009.
Groenman, Sjoerd - 4481.
Gulick, John - 4090.
Gulliver, P. H. - 4091.
Gumbel, E. J. - 4190.

- H -

Haas, J. H. de - 4177, 4186.
Haiti. Institut Haïtien de Statistique - 4460.
Hajnal, John - 4156, 4486.
Hanna, Frank A. - 4400.
Harmiston, Floyd K. - 4099.
Hauser, Fritz - 4437.
Hauser, Philip M. - 4136.
Haw, R. H. - 4205.
Henripin, Jacques - 4466.
Henry, Louis - 4023, 4059, 4060, 4157, 4178.
Hill, George W. - 4296.
Hill, Reuben J. - 4254.
Hill, Ruth O. - 4296.

Hocking, W. S. - 4183.
Hoffman, Morton - 4004.
Hofstee, E. W. - 4010.
Honduras. Servicio Informativo del Banco Central de Honduras y del Banco Nacional de Fomento - 4061.
Horowitz, C. Morris - 4004.
Horstmann, Kurt - 4381.
Howell, Trevor H. - 4395.
Hubback, Judith - 4229.
Hughes, H. Stuart - 4018.
Hungary. Központi Statisztikai Hivatal - 4062.
Huyck, Earl - 4023.

- I -

India. Registrar General - 4550, 4551, 4553.
India. [State.... Superintendent of Census Operations.] - 4552.
India. West Bengal. State Statistical Bureau - 4554.
Institute of Actuaries - 4195.
Institute for the Study of the History and Culture of the U.S.S.R. - 4063.
Instituto Elcano. Departamento de Geografía Aplicada - 4064.
Inter American Statistical Institute - 4461.
Intergovernmental Committee for European Migration. Council - 4425.
International Labour Office - 4277-4279, 4321, 4348, 4473, 4474.
International Labour Organisation - 4322.
International Social Security Association - 4413.
International Union of Official Travel Organisations. Research and Organisation Commission - 4304.
Ireland. Republic. Central Statistics Office - 4537.
Ireland. Republic. Commission on Emigration and Other Population Problems, 1948-1954 - 4426.
Isaac, Julius - 4280.
Italy. Centro di Documentazione - 4247.
Italy. Documentary Center - 4065.
Italy. Istituto Centrale di Statistica - 4538.
Itoh, S. - 4233.
Iverus, Ivar - 4011.

- J -

Jagannadham, V. - 4092.
Jager, J. de - 4191.
Jansen, J. H. C. - 4255.
Japan. Bureau of Statistics - 4555.
Japan. Ministry of Labor. Division of Labor Statistics and Research - 4556.
Japanese Birth Control Institute - 4408.
Jecklin, H. - 4192.
Jenkis, H. W. - 4310.
Johansen, John P. - 4372.
John, C. C. - 4230.
Johnson, Elmer H. - 4446.
Jones, Frederick W. - 4137.
Joublin, F. - 4293.

- K -

Katona, George - 4391.
Kaufmann, Fritz - 4206.
Kelley, S. C., Jr. - 4093.
Kelley, Samuel C. - 4447.
Kennedy, Albert J. - 4004.
Kephart, William M. - 4256.
Khander, R. H. - 4387.
Kitagawa, Evelyn M. - 4113.
Klein, Lawrence R. - 4391.
Knoepfli, Rolf - 4239.
Kocovskij, D. - 4396.
Kohl, Schuyler G. - 4179.
Komatu, Y. - 4335.
Korzybski, S. - 4114.
Krieger, Kurt - 4467.
Kuznets, Simon - 4377.

- L -

Lader, Lawrence - 4414.
Lampe, P. H. J. - 4216.
Langrod, G. - 4427.
Lannes, Xavier - 4066, 4131, 4281.
Lansing, John B. - 4391.
Lavedan, Pierre - 4115.
Lebret, L.-J. - 4116.
Lehman, Harvey C. - 4401.
Lemieux, O. A. - 4004.
Lenzi, Romolo - 4174, 4257, 4282, 4448.
Lew, Edward A. - 4165, 4166.
Lewit, Sarah - 4515.
Lieberman, M. D. - 4468.
Lindseth-Ditlefsen, Else-Marie - 4237.
Lipscomb, J. F. - 4297.
Logan, W. P. D. - 4486.
Lohman, H. E. - 4117.
Lydall, Harold - 4402.

- M -

McMahan, C. A. - 4185, 4193, 4194.
Macura, Miloš - 4067.
Mainichi Newspapers - 4370.
Malécot, Gustave - 4012.
Mandel'chtam, A. E. - 4415.
Maris, A. - 4369.
Marks, Herbert H. - 4165.
Maroi, Lanfranco - 4217.
Marshall, Herbert - 4004.
Martin, W. J. - 4184.
Martín de la Escalera, Carmen - 4068.
Masferrer, Alberto - 4013.
Mathen, K. K. - 4167, 4218, 4231, 4449.
Matsunaga, E. - 4232, 4233.
Maunder, W. F. - 4283.
Mayer, H. M. - 4323.

Meadows, Paul - 4082.
Meier, Paul - 4004.
Mendes Corrêa, A. A. - 4069.
Mercier, Paul - 4118.
Mertens, C. - 4482.
Metropolitan Life Insurance Company - 4168, 4207, 4219, 4258, 4324, 4349.
Mezquita Lopez, Manuel - 4336.
Miller, Clarence J. - 4082.
Millis, Jean - 4220.
Mirengoff, William - 4327.
Misra, B. P. - 4416.
Mitchel, N. C. - 4119.
Molinari, Alessandro - 4382.
Monahan, Thomas P. - 4263.
Mondragón, Rubén - 4061.
Montagne, Robert - 4350.
Montini, Lodovico - 4351.
Moran, P. A. P. - 4450.
Morgan, James N. - 4391.
Mortara, Giorgio - 4325.
Mourant, A. E. - 4337.
Mourgues, L. - 4293.
Mukherjee, Sudhansubhusan - 4120.
Muramatsu, M. - 4483.
Murphy, H. B. M - 4311.
Myers, Robert J. - 4162.
Mysore Economic Review - 4416.

- N -

Naguleswaran, P. - 4040.
Namjoshi, M. V. - 4352.
Narain, Iqbal - 4284.
National Industrial Conference Board - 4392.
National Planning Association - 4353, 4406.
Neel, James V. - 4338.
Neesen, V. - 4070.
Nehnevajsa, Jirl - 4007.
Nepal. Department of Statistics - 4557.
Netherlands. Centraal Bureau voor de Statistiek - 4539.
Netherlands. Rijksdienst voor het Nationale Plan - 4105.
New York. State Department of Commerce - 4383.
New York Academy of Medicine - 4179.
New Zealand. Department of Island Territories - 4565, 4566.
Nicaragua. Dirección General de Estadística y Censos - 4506.
Nicholas, Paul - 4121.
Nisbet, John D. - 4234.
Northern Ireland. General Register Office - 4544.

- O -

Oeter, Ferdinand - 4417, 4418.
Okazaki, Ayanori - 4071.
O'Reilly, P. - 4094.
Oriental Economist - 4072.

- P -

Pakistan. Punjab. Board of Economic Inquiry - 4558.
Pakistan Institute of International Affairs - 4122.
Palmer, Edgar Z. - 4082.
Panama. Dirección de Estadística y Censo - 4507.
Pane, Edda dal - 4354.
Parsons, James J. - 4298.
Parukh, S. K. - 4384.
Pascua, M. - 4208.
Paterson, Robert W. - 4095.
Pavik, Z. - 4014.
Pavlyuk, Mykhaylo - 4142.
Pazos, F. - 4015.
Petersen, William - 4016.
Philippines. Bureau of the Census and Statistics - 4559.
Phillips, William - 4169.
Pinchbeck, I. - 4264.
Pitié, J. - 4132.
Pizzetti, Ernesto - 4451.
Podjačik, P. G. - 4076.
Pohle, H. - 4135.
Political and Economic Planning (PEP) - 4409.
Pollard, A. H. - 4073.
Polskie Towarzystwo Ekonomiczne. [Polish Economic Society.] - 4484.
Pommerenke, W. T. - 4244.
Population Problems Research Council - 4370.
Portugal. Instituto Nacional de Estatística - 4469.
Prawitz, H. - 4170.
Pressat, Roland - 4060, 4066, 4157.
Puerto Rico. Commonwealth. Department of Labor - 4385, 4386.
Puerto Rico. Commonwealth. Department of Labor. Bureau of Labor Statistics - 4143.

- R -

Raoux, Mlle - 4293.
Rasor, Eugene A. - 4162.
Ravina, A. - 4209.
Real Estate Analyst - 4138, 4326.
Redick, Richard W. - 4150.
Regional Plan Association - 4158.
Reiss, Albert J., Jr. - 4004.
Reissner, H. G. - 4041.
Rhea, Theodore R. - 4074.
Riemer, Ruth - 4221.
Roberts, G. W. - 4222.
Roberts, J. A. Fraser - 4486.
Robison, Sophia M. - 4364.
Robson, William A. - 4123.
Rochefort, R. - 4485.
Rody, Martin J. - 4124.
Rondepierre, Jean - 4428.

Rosenberg, Louis - 4365, 4366.
Rossano, J. - 4299.
Rössel, Agda - 4355.
Round Table - 4285.
Rountree, Griselda - 4419.
Royal Statistical Society - 4486.
Russell, E. John - 4371.

- S -

Sansonetti, Luigi - 4300.
Sauvy, Alfred - 4075.
Savorgnan, Franco - 4159.
Schaake, Ulrich - 4475.
Scharlau, Kurt - 4017.
Schätzel, W. - 4312.
Schelsky, H. - 4265.
Schmitt, Robert C. - 4339, 4452-4454.
Schmucker, Helga - 4476.
Schnore, Leo F. - 4125.
Schöller, P. - 4126.
Schull, William J. - 4338.
Schwartz, C. P., Jr. - 4429.
Scovel, Victor L. - 4099.
Semaine Sociale du Canada - 4301.
Semenova, A. - 4076.
Semon, Thomas T. - 4127.
Senior, Clarence - 4286.
Shepperson, W. S. - 4042.
Silving, Helen - 4438.
Simon-Depitre, Marthe - 4430.
Singh, V. B. - 4410.
Sinha, P. - 4167.
Smith, Robert S. - 4018.
Società Edison - 4160.
Société des Océanistes - 4049.
Sommers, Albert T. - 4392.
Somogyi, Stefano - 4397.
Sorre, Maximilien - 4487, 4488.
Sorrentino, Beniamino - 4240.
Sorrentino, Michelangelo - 4240.
South Carolina. Employment Security Commission - 4356.
South Dakota. State College Agricultural Experiment Station. Rural Sociology Department - 4372.
Sovani, N. V. - 4223.
Spengler, J. J. - 4019.
Spiegelman, Mortimer - 4020, 4398.
Spuhler, J. N. - 4340.
Stanton, W. J. - 4306.
Steel, R. W. - 4077.
Steigenga, Willem - 4078, 4128.
Stern, Curt - 4021.
Stewart, Charles D. - 4004.
Stycos, J. M. - 4266.
Sudan Government. Ministry of Health - 4562.
Sumner, E. F. W. - 4171.
Suter, K. - 4079.
Sutter, Jean - 4245, 4420.
Swadeshi, Satya - 4416.
Sweden. Statistiska Centralbyrån - 4470, 4489.
Sweetser, Frank L., Jr. - 4129.
Switzerland. Eidgenössisches Statistisches Amt - 4540.

- T -

Tabah, Léon - 4196, 4490.
Tachi, Minoru - 4080.
Tanoglu, Ali - 4313.
Taylor, M. C. - 4421.
Texas Research League - 4161.
Thomas, Brinley - 4486.
Tizzano, A. - 4180, 4181, 4373, 4491.
Tomasevitch, Jozo - 4022.
Toschi, U. - 4455.
Tosco, Manuel - 4061.
Tregear, T. R. - 4081.
Trinidad and Tobago. Central Statistical Office - 4508.
Turbani, M. - 4302.
Turkey. Istatistik Umum Müdürlügü - 4560.
Turner, H. A. - 4456.
Tutt, L. W. G. - 4172.

- U -

Uchida, Kanichi - 4044.
Union of South Africa. Bureau of Census and Statistics - 4563.
United Nations. Department of Economic and Social Affairs. Population Division - 4023, 4024.
United Nations. Department of Economic and Social Affairs. Statistical Office - 4462, 4471.
United Nations. Economic and Social Council - 4025, 4492.
United Nations. General Assembly. Committee on Information from the Non-Self-Governing Territories - 4173.
United Nations. Secretariat. Office of Legal Affairs - 4431.
U. S. Agricultural Marketing Service - 4145.
U. S. Bureau of Employment Security - 4327.
U. S. Bureau of Labor Statistics - 4477.
U. S. Bureau of the Census - 4144, 4145, 4509-4512, 4518-4520.
U. S. Congress. House. Committee on the Judiciary - 4432.
U. S. Department of Agriculture - 4329.
U. S. Department of Agriculture. Library - 4500.
U. S. Department of Labor - 4357.
U. S. Immigration and Naturalization Service - 4433, 4521.
U. S. National Archives - 4501.
U. S. National Office of Vital Statistics - 4513-4517.

U. S. Social Security Administration - 4162.
University of Colorado. Bureau of Business Research. School of Business - 4096.
University of London. Institute of Education. Department of Education in Backward Areas - 4503.
University of Miami. Bureau of Business and Economic Research - 4097.
University of Nebraska. Council for Community Study - 4082.

- V -

Valdes La Vallina, F. - 4241.
Van den Berg, Bea - 4186.
Van der Laan, A. F. - 4083, 4287.
Van der Valk, H. M. H. A. - 4098.
Van Gelderen, H. H. - 4187.
Van Heer, F. - 4235.
Varley, David W. - 4125.
Venezuela. Dirección General de Estadística y Censos Nacionales - 4526.
Vergottini, Mario de - 4259.
Verschuer, Otmar Frhr. von - 4224.
Veyret-Verner, Germaine - 4084, 4106.
Villard, Henry H. - 4026.
Villiers, de - 4293.
Vito, F. - 4267.

- W -

Walter, L. W. - 4146.
Wapler, R. J. - 4288.
Weibull, Jörgen - 4038.
Weis, P. - 4434.
Wells, A. J. - 4497.
Wendt, P. F. - 4163.
Wertheim, W. F. - 4472.
Westergaard, Mogens - 4439.
Westoff, Charles F. - 4236.
Wickens, P. C. - 4189.
Widstam, Ture - 4164.
Winkler, Wilhelm - 4027, 4493.
Witt, C. D. - 4028.
Wolfbein, Seymour L. - 4107.
Wood, Arthur E. - 4405.
Woodrow Wilson Foundation - 4406.
World Health Organization - 4463, 4567.
Wurm, Stefan - 4367.
Wurzbacher, Gerhard - 4268.
Wyoming Industrial Research Council - 4099.

- Y -

Yamazaki, J. N. - 4225.
Yntema, L - 4457.
You-Poh-Seng - 4220.
Yugoslavia. Savezni Zavod za Statistiku i Evidenciju - 4478, 4545, 4546.
Yugoslavia. Serbia. Federated Republic. Zavod za Statistiku i Evidenciju - 4547.
Yugoslavia. Slovenia. Federated Republic. Zavod za Statistiko in Evidenco - 4548.

- Z -

Zucchini, M. - 4303.

STATISTICS

COMPLETE EXPECTATION OF LIFE ($\mathring{e}_x$) AT VARIOUS AGES IN SELECTED COUNTRIES /1

With very few exceptions, these figures are the most recent available since 1940 and are for countries with populations of 500,000 or more. No adjustment has been made for deficiencies, which in some cases may be serious. Unless otherwise noted the figures were taken from publications of the United Nations Statistical Office, which present mainly data officially submitted by governments.

Country	Years	Sex	Age					
			0	1	10	20	40	60
North America								
Canada /a	1950-52	M	66.33	68.33	60.15	50.76	32.45	16.49
		F	70.83	72.33	64.02	54.41	35.63	18.64
Costa Rica	1949-51	M, F	55.72	60.66	56.28	47.12	30.32	15.38
El Salvador	1949-51	M	49.94	54.31	52.85	44.48	30.24	16.94
		F	52.40	56.35	54.99	46.50	31.53	17.40
Jamaica	1945-47	M	51.25	56.04	50.77	41.87	26.43	13.59
		F	54.58	58.96	53.58	45.13	30.32	16.32
Mexico	1940	M	37.92	44.43	45.43	37.56	24.82	13.35
		F	39.79	46.22	47.86	40.01	26.60	13.54
Panama /b	1941-43	M	50.54	54.13	50.10	41.91	27.26	14.52
		F	53.46	56.58	52.48	44.28	30.15	16.38
Trinidad and Tobago	1950-52	M	56.31	60.50	53.19	44.01	27.06	13.04
		F	58.45	62.18	54.88	45.90	29.76	15.15
U.S., Continental	1949-51	M	65.47	66.73	58.35	48.92	30.79	15.68
		F	70.96	71.84	63.38	53.73	35.06	18.50
Whites /2	1949-51	M	66.31	67.41	58.98	49.52	31.17	15.76
		F	72.03	72.77	64.26	54.56	35.64	18.64
Nonwhites /2	1949-51	M	58.91	61.06	52.96	43.73	27.29	14.91
		F	62.70	64.37	56.17	46.77	29.82	16.95
South America								
Argentina	1947	M	56.9	61.7	54.7	45.6	28.2	13.8
		F	61.4	65.7	58.7	49.6	32.4	16.5
Chile	1940	M	37.9	47.9	46.4	38.4	25.1	13.0
		F	39.8	49.4	48.5	40.8	27.8	14.4
Venezuela /3	1941-42	M	45.83	51.24	48.19	39.92	26.21	14.00
		F	47.55	52.48	49.65	41.59	28.49	15.80

Complete Expectation of Life ($\mathring{e}_x$) at Various Ages in Selected Countries (Continued)

Country	Years	Sex	Age 0	1	10	20	40	60
Europe								
Austria	1949-51	M	61.9	65.9	58.0	48.7	30.7	15.1
		F	67.0	70.1	62.2	52.6	34.2	17.3
Belgium	1946-49	M	62.0	65.3	57.4	48.0	30.6	15.5
		F	67.3	69.7	61.7	52.3	34.2	17.5
Denmark	1946-50	M	67.8	70.0	61.7	52.2	33.8	17.1
		F	70.1	71.7	63.3	53.6	35.0	17.9
Estonia /4	1932-34	M	53.15	57.93	52.02	43.68	28.22	14.36
		F	59.62	63.87	58.08	49.75	33.65	17.44
Finland	1946-50	M	58.59	61.09	53.44	44.40	28.02	13.75
		F	65.87	67.97	60.18	51.02	33.59	16.79
France (ex. Saar)	1950-51	M	63.6	66.1	57.9	48.4	30.4	15.1
		F	69.3	71.2	63.0	53.4	35.0	18.1
Germany Federal Republic	1949-51	M	64.6	67.8	59.8	50.3	32.3	16.2
		F	68.5	71.0	62.8	53.2	34.7	17.5
Hungary /c	1941	M	54.92	61.75	55.27	46.65	30.14	15.00
		F	58.22	64.00	57.32	48.73	32.12	16.03
Ireland (Republic)	1945-47	M	60.5	64.4	56.9	47.8	30.6	15.1
		F	62.4	65.5	57.9	48.8	32.1	16.4
Latvia /5	1934-36	M	55.39	-	54.19	45.58	-	14.73
		F	60.93	-	58.80	50.25	-	17.73
Netherlands /6	1950-52	M	70.6	71.6	63.4	53.7	34.9	17.8
		F	72.9	73.5	65.1	55.4	36.3	18.6
Norway	1946-50	M	69.25	70.70	62.63	53.25	35.16	18.39
		F	72.65	73.56	65.24	55.64	36.96	19.45
Poland	1948	M	55.6	62.5	55.7	46.8	30.2	15.3
		F	62.5	67.4	60.7	51.6	34.2	17.7
Portugal	1949-52	M	55.52	60.98	56.13	47.02	30.26	15.12
		F	60.50	65.64	60.97	51.83	34.45	17.66
Sweden	1946-50	M	69.04	69.92	61.62	52.14	33.84	17.05
		F	71.58	72.08	63.58	53.95	35.29	18.03
Switzerland	1939-44	M	62.68	64.75	57.08	47.92	30.42	14.75
		F	66.96	68.46	60.62	51.28	33.35	16.65
United Kingdom England and Wales	1952	M	67.06	68.20	59.74	50.12	31.39	15.11
		F	72.35	73.14	64.58	54.83	35.84	18.52
Scotland	1953	M	65.68	67.04	58.67	49.12	30.57	14.83
		F	70.68	71.60	63.16	53.46	34.66	17.74

Country	Years	Sex	Age 0	1	10	20	40	60
Asia								
Ceylon /7	1953	M	58.8	62.9	58.6	50.1	32.4	16.3
		F	57.5	60.6	57.1	48.2	31.7	15.0
India /d	1941-50	M	32.45	39.00	38.97	33.03	20.53	10.13
		F	31.66	37.30	39.45	32.90	21.06	11.33
Israel (Jews)	1953	M	67.98	69.57	61.49	52.13	33.55	16.78
		F	70.50	72.00	63.78	54.08	35.13	17.79
Japan /e	1953	M	61.9	64.3	57.3	48.0	30.6	15.0
		F	65.7	67.7	60.8	51.4	33.9	17.7
Thailand	1947-48	M	48.7	52.0	47.9	39.8	25.6	12.7
		F	51.9	55.2	50.9	42.7	28.4	14.2
Africa								
Belgian Congo								
African population /f	1950-52	M	37.64	42.45	41.40	34.41	21.48	10.63
		F	40.00	44.14	43.23	36.29	23.33	12.27
Mauritius (ex. dep.)	1942-46	M	32.25	38.98	35.85	28.15	16.70	8.11
		F	33.83	39.75	37.28	30.17	21.16	10.57
Union of South Africa								
Europeans	1945-47	M	63.78	65.51	57.71	48.35	30.38	15.34
		F	68.31	69.63	61.73	52.27	34.07	18.04
Asiatics	1945-47	M	50.70	54.29	48.78	40.22	24.82	11.97
		F	49.75	52.82	47.47	39.30	24.78	11.96
Oceania								
Australia /g	1946-48	M	66.07	67.25	59.04	49.64	31.23	15.36
		F	70.63	71.45	63.11	53.47	34.91	18.11
New Zealand								
Europeans	1950-52	M	68.29	69.03	60.60	51.15	32.65	16.19
		F	72.43	72.90	64.37	54.64	35.64	18.53
Maoris	1950-52	M	54.05	57.69	50.99	42.21	26.41	12.81
		F	55.88	59.08	52.05	43.29	27.00	14.41

a/ Excluding Yukon and Northwest Territories.
b/ Excluding tribal Indians.
c/ Area as of date.
d/ Data relate to an area with 294,749,000 inhabitants at the census in 1951. Values for ages under 5 and 60 and over are estimated.
e/ Japanese nationals in Japan only.
f/ Based on sample surveys of approximately 4 per cent of population. Values for ages 70 and over based on estimated mortality rates.
g/ Excluding full-blooded aborigenes.

Sources

1/ Unless otherwise noted, figures were taken from: United Nations Statistical Of-

fice. Demographic Yearbook, 1953, Table 19, or Demographic Yearbook, 1954, Table 38.

2/ U.S. National Office of Vital Statistics. Vital Statistics — Special Reports, Vol. 41, No. 1. "United States life tables: 1949-51." Nov. 23, 1954. Pp. 1-32.

3/ Michalup, Eric. "The construction of the first Venezuelan life tables." Estadística 9(30):73-76. March, 1951.

4/ Estonia. Rilgi Statistika Keskbüroo. Esti Statistika Kuukiri 170(1). Jan., 1936.

5/ Institut International de Statistique. Aperçu de la démographie des divers pays du monde, 1929-1936. La Haye, 1939.

6/ Netherlands. Centraal Bureau voor de Statistiek. Sterftetafels voor Nederland, afgeleid uit waarnemingen over de periode 1950-1952. Utrecht, 1954. Pp. 32, 33.

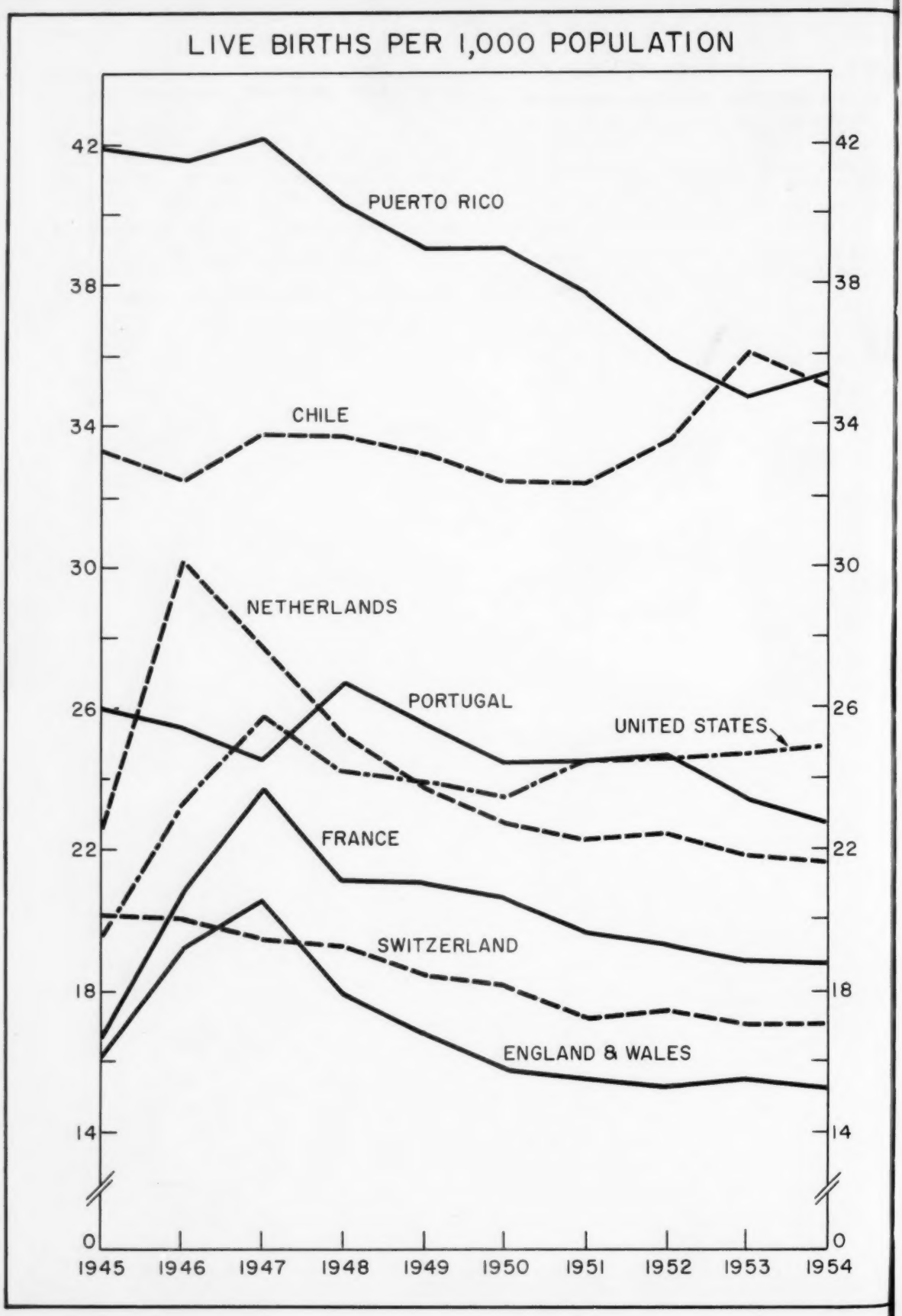
7/ Ceylon. Department of Census and Statistics. Quarterly Bulletin of Statistics 6 (1):7. March, 1955.

1936.

e. A-
pays
9.

or de
land,
riode
33.

l Sta-
tics 6


LIVE BIRTHS PER 1,000 POPULATION
PUERTO RICO
CHILE
NETHERLANDS
PORTUGAL
UNITED STATES
FRANCE
SWITZERLAND
ENGLAND & WALES
42
38
34
30
26
22
18
14
0
1945
1946
1947
1948
1949
1950
1951
1952
1953
1954

POPULATION INDEX

Editors: Frank W. Notestein, Dorothy Good
Consulting Editor: Irene Barnes Taeuber

Vol. 21 1955

CONTENTS

INDEX OF CURRENT ITEMS ii

INDEX OF BIBLIOGRAPHY ii

INDEX OF STATISTICS iii

INDEX OF CHARTS iii

GEOGRAPHICAL INDEX iv

AUTHOR INDEX xi

Published quarterly by the Office of Population Research, Woodrow Wilson School of Public and International Affairs, Princeton University; and the Population Association of America, Inc.

Communications concerning subscriptions to Population Index should be directed to: Office of Population Research, Princeton University, 5 Ivy Lane, Princeton, N.J.

Communications regarding membership in the Population Association of America, Inc., should be addressed to: Dr. Hugh Carter, Secretary, Population Association of America, National Office of Vital Statistics, Department of Health, Education, and Welfare, Washington 25, D.C.

CURRENT ITEMS

January — Page

Notestein, Frank W. Change in Editors 3
Taeuber, Irene B. Cyprus: The Demography of a Strategic Island 4
Good, Dorothy. The Bibliography and the Statistical Section 21

April

Notestein, Frank W. The Birth Rate Subsides in Western Europe 76
Taeuber, Irene B. Some Recent Research on Fertility in Africa and Asia 77
Potter, Robert G., Jr. The British Family Census of 1946.. 88
Notestein, Frank W. "Cohort Fertility," by P.K. Whelpton.. 90
Osborn, Robert, Jr. "Fécondité des Mariages," by Louis Henry 92
Coale, Ansley J. The Calculation of Approximate Intrinsic Rates 94

July

The 1955 Meeting of the Population Association 159
Officers of the Population Association 170

October

Taeuber, Irene B. The Population of the Ryukyu Islands .. 233

BIBLIOGRAPHY

A. General Population Studies and Theory 29, 99, 172, 265
B. Regional Population Studies 29, 99, 172, 268
C. Spatial Distribution..... 31, 103, 175, 273
D. Trends in Population Size 32, 105, 177, 276
E. Mortality..... 33, 106, 178, 278
F. Fertility and Natural Increase 36, 110, 183, 282
G. Marriage, Divorce, and the Family 38, 113, 185, 285
H. International Migration 38, 114, 186, 286
I. Internal Migration..... 39, 117, 187, 290
J. Characteristics 40, 117, 188, 291
K. Demographic and Economic Interrelations .. 43, 121, 192, 294
L. Other Interrelations 46, 125, 194, 297
M. Policies..... 47, 127, 195, 298
N. Methods of Research and Analysis 49, 129, 196, 300
O. Organization and Administration 51, 131, 198, 301
P. Professional Meetings and Conferences..... 52, 132, 200, 303
Q. Bibliographies 53, 132, 201, 304
R. New Periodicals 54, 133, 202, 305
S. Official Statistics 55, 134, 202, 305
Subject Index..... 61, 143, 209, 313

STATISTICS

	Page
Population Size and Growth	70
Intrinsic Vital Rates and Corresponding Reproduction Rates	152
Birth Rates	218
Death Rates	220
Infant Mortality Rates	221
Marriage Rates	223
Complete Expectation of Life ($\mathring{e}_x$) at Various Ages in Selected Countries	323

CHARTS

	Vol. 21, No.
Front Cover	
Growth of Village Population, Cyprus, 1881-1946	1
Crude Birth Rates for 1946-1948 and 1953 in Relation to Rates for 1935-1939	2
Stable Age Distributions with Different Vital Rates	3
The Ryukyu Islands, 1950	4
Back Cover	
Deaths per 1,000 Population	1
Infant Deaths per 1,000 Live Births	2
Excess of Births over Deaths per 1,000 Population	3
Live Births per 1,000 Population	4

In Text	Page
The Population of Okinawa Prefecture by Age and Sex, 1920, 1935, and 1950	246
Sex Ratios by Age, Okinawa Prefecture, 1920, 1935, and 1950	247
Marital Status of Women in Okinawa Prefecture by Age, 1920, 1935, and 1950	250

GEOGRAPHICAL INDEX

The reader is reminded that in addition to the author and geographical indexes which have been here cumulated, the four quarterly issues of Population Index present subject indexes, that may be correlated with the geographical indexes in each issue for a more detailed analysis. The basis of the subject classification is explained on pp. 21-25 of the January issue.

NORTH AMERICA

North America - 3368, 4134.
Central America - 2363, 4291.
Alaska - 1156, 1294, 1297, 1298, 2400, 3063, 3133, 4305.
Bermuda - 3378.
Canada:
Regional Population Studies - 2011, 3039, 4098.
Spatial Distribution - 2251.
Trends in Population Size - 2064, 2069, 4098, 4141.
Mortality - 1063, 2011, 3118, 3334, 4200.
Fertility and Natural Increase - 1193, 2011, 2069.
Marriage, Divorce, and the Family - 1193, 2011, 4141.
International Migration - 1193, 2193, 4301.
Characteristics - 1156, 1193, 2064, 2227, 2251, 2386, 3223, 3240, 3241, 4141, 4365, 4366.
Demographic and Economic Interrelations - 1193, 3039.
Policies - 2322.
Methods of Research and Analysis - 1288.
Organization and Administration - 1288, 3334, 4466, 4504.
Bibliographies - 1272, 3365.
Official Statistics - 1288, 2386-2388, 3365, 4466, 4504.
Costa Rica - 2030, 2245, 4300, 4505.
Cuba - 4051.
Dominican Republic - 2031, 2212, 2389.
El Salvador - 1267, 1289, 2098, 4175.
French West Indies - 4052.
Greenland - 1156, 2390.
Guatemala - 1290, 4013.
Haiti - 2350, 2391, 3380, 4460.
Hawaii - See under Oceania.
Honduras - 2392, 3342, 4061.
Jamaica - 4266, 4283.
Martinique - 3381.
Mexico - 1214, 1291, 2383, 3254, 4241.
Nicaragua - 4506.
Panama - 4507.
Puerto Rico - 1294, 1297, 1298, 2158, 2173, 2400, 3041, 4143, 4254, 4286, 4327, 4385, 4386, 4421.
Trinidad and Tobago - 1292, 3170, 3382, 4508.
United States:
General Population Studies and Theory - 4003, 4004, 4007, 4127, 4377.
Regional Population Studies:
Historical Studies - 4004, 4038, 4042, 4137, 4226, 4377, 4501.
Regional Demography - 3035, 4057.
Surveys Containing Demographic Material - 1021, 1041, 2028, 3046.
Spatial Distribution:
General Spatial Distribution - 2260, 4007, 4103, 4107, 4494.
Urban Patterns - 1030, 2049, 2056, 2057, 2070, 2259, 2290, 2333, 2334, 3390, 4004, 4108, 4113, 4124, 4125, 4127, 4129, 4315, 4319, 4320, 4323, 4326.
Rural Patterns - 1041.
Trends in Population Size:
Past Trends - 1044, 2063, 3070, 4057, 4137, 4138.
Estimates - 1294, 2395, 3070, 3317, 4057, 4144-4146, 4441, 4452.
Projections and Predictions - 1046, 1048, 1246, 2063, 2070, 2072-2074, 2257, 2264, 2342, 2395, 3267, 4057, 4155, 4162, 4376, 4454.
Mortality:
General Mortality - 1053, 1055, 1067, 1068, 1079, 2076, 3080-3084, 3104, 4165, 4166.
Prenatal Mortality - 1056, 2080, 2088, 3088, 3092, 3093, 3325, 4179.
Infant Mortality - 1069, 2088, 2368, 3092, 3093, 3330, 4179.
Mortality at Other Ages - 1068, 1201, 1202, 2076, 2095, 2109, 2368, 3080, 3104, 3109, 3110, 4182, 4185, 4194, 4398.
Life Tables - 1067, 1079, 2095, 2105, 2347, 3110, 3117, 4004, 4193, 4194.
Mortality by Social and Economic Groups - 1068, 1069, 1072, 1074, 2118, 3080, 3084, 3127, 3133.
Mortality by Cause - 1053, 1069, 1072, 1074, 1075, 1077, 1079, 1081, 1279, 2109, 2116, 2118, 2121, 2124, 3080, 3083, 3088, 3092, 3125, 3127, 3133, 3318, 3321, 4200, 4201, 4207.

United States (cont.):
Fertility and Natural Increase:
General Fertility - 1084, 2063, 2132, 2133, 2138, 2139, 3142, 3148, 3149, 4213, 4215, 4219, 4221, 4258, 4263, 4511.
Differential Fertility - 1086, 1107, 1109, 2063, 3148, 4226, 4236, 4263.
Sterility and Other Pathology - 1088, 1099, 2151, 2152, 3330, 4238.
Fertility Controls - 1107, 2157, 2159, 3148, 3287, 4221.
Marriage, Divorce, and the Family - 1107-1109, 2063, 2164, 2170-2172, 3082, 3168, 3171, 3309, 4003, 4251, 4256, 4258, 4262, 4263, 4510, 4515.
International Migration - 1021, 1158, 1225, 1227, 2190, 2191, 2193, 2200, 3188, 3296, 3393, 4038, 4042, 4305, 4377, 4429, 4432, 4433.
Internal Migration - 1021, 1122, 1124, 1127, 1173, 1236, 2208, 2261, 3198, 3200, 4004, 4305, 4315, 4318-4320, 4323, 4324, 4326, 4329, 4446, 4500.
Characteristics:
Demographic Characteristics - 1134, 1189, 1194, 1294, 2057, 2171, 2252, 2292, 2357, 3070, 3082, 3171, 3206, 3214, 3317, 4334.
Biological Characteristics - 2218, 2368, 3330, 4340.
Psychological Characteristics - 2223.
Economic Characteristics - 1041, 1147-1150, 1163, 1173, 1177, 1180, 1184, 1186, 1265, 1293, 1296, 2057, 2171, 2225, 2239, 2241-2243, 2257, 2264, 2282, 2286, 2292, 2298, 2397, 2398, 3227, 3252, 3267, 3300, 3315, 3388, 3391, 3392, 4004, 4057, 4155, 4334, 4345, 4349, 4357, 4378, 4509, 4518-4520.
Social Characteristics - 1041, 1282, 2057, 2292, 2298, 4004, 4360.
Ethnic Characteristics - 1155, 1157, 1158, 1163, 2252, 2261, 2292, 2298, 4004, 4182, 4315, 4340.
Demographic and Economic Interrelations:
Demographic Factors and Resources - 4057.
Economic Growth - 2256, 2257, 2259-2261, 2264, 3252, 4057, 4108, 4113, 4323, 4375-4377.
Labor Force Participation - 1072, 1173, 1177, 1179, 1180, 2190, 2256, 2257, 2271, 2275, 2345, 3300, 4004, 4340, 4378, 4398.
Occupation and Industry - 1127, 1147, 1155, 1184, 1186, 1188, 3267, 4108, 4113, 4125, 4318, 4329, 4334, 4355.
Business Fluctuations - 1021, 2063, 2280, 4125, 4389, 4391, 4392.
Economic Dependency - 1048, 1108, 1189, 1191, 1201, 1202, 2256, 2281, 2282, 2285-2287, 3214, 4398.
Other Economic Variables - 1194, 2290, 2298, 3227, 4125, 4400.
Other Interrelations - 1021, 1086, 1107, 1109, 1157, 1200-1203, 1282, 2073, 2074, 2076, 2172, 2190, 2275, 2292, 2294, 2296, 2298, 2359, 3093, 3104, 3148, 3277, 4003, 4004, 4125, 4221, 4256, 4360, 4404, 4406.
Policies - 1222, 1225, 1227-1230, 2200, 2327-2331, 3252, 3287, 3296, 3300, 4429, 4432, 4433.
Methods of Research and Analysis - 1048, 1186, 1200, 1236, 1244, 1246, 1256, 2056, 2088, 2190, 2271, 2294, 2333, 2334, 2336, 2342, 2345, 2347, 2398, 3084, 3142, 3148, 3206, 3227, 3267, 3309, 3315, 3317, 3318, 4003, 4103, 4108, 4137, 4194, 4340, 4391, 4441, 4446, 4447, 4452, 4454.
Organization and Administration - 1244, 1250, 1256, 1265, 2357-2359, 3168, 3206, 3321, 3325, 3330, 3333, 4004, 4226, 4251, 4465, 4470.
Professional Meetings and Conferences - 3172, 3296, 4004, 4398.
Bibliographies - 1276, 1279, 1282, 1283, 2368, 2378, 3315, 4494, 4500, 4501.
New Periodicals - 1287, 2385.
Official Statistics - 1148, 1149, 1283, 1287, 1293-1302, 2393-2403, 3084, 3315, 3333, 3383-3393, 4226, 4501, 4509-4521.
Regions:
Middle Atlantic - 4327.
New England - 2028.
Pacific Northwest - 1197.
South - 3035, 3046, 4086, 4104, 4353, 4388, 4446.
Southeast - 3044.
Southwest - 2292, 4340.
West - 2296.
States:
Arkansas - 4146.
California - 1045, 2279, 4032, 4140, 4163.
Colorado - 4096.
Connecticut - 4158.
Florida - 2045, 3164, 3208, 4097, 4327.
Georgia - 2206.
Illinois - 4150.
Iowa - 3122.
Kentucky - 3014, 3197.
Louisiana - 1054, 2276.
Minnesota - 1033, 2040, 2119, 2122, 3090.
Mississippi - 1066, 2103, 3278.
Nebraska - 4082, 4250.
New Jersey - 1035, 4158.
New Mexico - 4030.
New York - 1145, 3093, 3261, 3323.
North Carolina - 2099, 2317.

North Dakota - 3074, 4093.
Ohio - 2223, 3127.
Oklahoma - 3102, 3244.
Oregon - 4032.
Pennsylvania - 2260.
South Carolina - 1077, 3129, 4356.
South Dakota - 4372.
Tennessee - 2254.
Texas - 4161.
Virginia - 3265, 4095.
Washington - 1157, 3064.
West Virginia - 2207, 2269.
Wisconsin - 3134.
Wyoming - 4099.
Counties:
Macon, Ala. - 1079.
Madison, N.Y. - 4226.
Sweet Grass, Mont. - 1041.
Cities:
Baltimore, Md. - 2171.
Chicago, Ill. - 1037, 2068, 4147, 4150.
Detroit, Mich. - 1069, 1107, 4215.
Elmira, N.Y. - 2294.
Flint, Mich. - 2053, 2054.
Hamtramck, Mich. - 4405.
Indianapolis, Ind. - 1109, 2133, 2157, 2159, 3148.
Los Angeles, Calif. - 3056, 4213.
New York, N.Y. - 1032, 1161, 2070, 4158, 4179, 4358.
Norristown, Pa. - 1236, 4318-4320.
Philadelphia, Pa. - 1162, 3057.
Pittsburgh, Pa. - 1203.
San Antonio, Texas - 1080.
Trenton, N.J. - 4364.
Washington, D.C. - 1034.
Virgin Islands - 1294, 1297, 1298, 2400.

SOUTH AMERICA

South America - 1153, 1154.
Argentina - 2217, 3091, 3394, 4279, 4290, 4330, 4502.
Bolivia - 4331.
Brazil:
General Population Studies and Theory - 2001, 3011.
Regional Population Studies - 2021, 2022, 3085, 3189, 3251, 4048, 4049, 4133, 4332, 4342.
Spatial Distribution - 3011.
Trends in Population Size - 2021, 3011, 3189, 3251, 4048, 4049, 4133, 4148, 4149.
Mortality - 2001, 2021, 2022, 2075, 2096, 3011, 3085, 3087, 3120, 3395, 4188, 4199.
Fertility and Natural Increase - 1083, 2021, 2143, 3011, 4212.
Marriage, Divorce, and the Family - 2162, 2163, 3011, 3167.
Brazil (cont.):
International Migration - 1220, 2194, 3011, 3186, 3189, 4049, 4281, 4289, 4292.
Internal Migration - 1125, 2201, 2235, 3011, 3189, 3195, 4049, 4325.
Characteristics - 1143, 1151, 2021, 2162, 2194, 2209, 2226, 2238, 2246, 3011, 3233, 3362, 4048, 4049, 4289, 4332, 4333, 4342, 4344, 4362.
Demographic and Economic Interrelations - 1083, 1183, 3251.
Other Interrelations - 1083.
Policies - 1220.
Methods of Research and Analysis - 2335, 4325, 4333.
Organization and Administration - 1083, 2163, 2238, 2348, 3233, 3322.
Bibliographies - 2367, 3362.
Official Statistics - 1151, 1303, 2348, 2404, 3233, 3395, 4522.
British Guiana - 2250.
Chile - 1057, 2091, 3396, 4440, 4523.
Colombia - 1102, 2360, 2405, 2406, 4524.
Ecuador - 1025, 3112, 3397, 4525.
Falkland Islands - 3398, 3399.
Paraguay - 1304, 1305.
Peru - 2384, 2407.
Surinam - 2408.
Venezuela - 1038, 1040, 1306, 3331, 3400, 4296, 4526.

EUROPE

Europe - 1029, 1117, 2010, 2185, 2186, 2258, 2262, 2265, 2266, 3033, 3191, 3193, 3266, 3297, 4253, 4276, 4281, 4287, 4369, 4423, 4425, 4438.
Central Europe - 1280.
Eastern Europe - 1011, 1280, 2366.
Scandinavia - 1224, 2325, 3126, 4281.
Western Europe - 1160, 2071, 2267, 3021, 3143, 4027, 4029, 4083, 4168.
Austria - 1071, 1141, 2110, 2409, 4197, 4198.
Belgium - 1206, 1284, 2014, 2134, 2174, 2319, 3166, 3199, 3319, 4249, 4477.
Bulgaria - 2198, 3095, 3194, 4313.
Czechoslovakia - 1060, 1094, 1095, 1097, 1115, 2050, 3097, 3204, 3326, 4014.
Denmark - 1047, 1191, 1307, 1308, 2401, 3101, 3401, 4202, 4477.
Finland - 1013, 1052, 1065, 1309, 2411, 3103, 3123, 3137, 3205, 4203, 4527.
France:
General Population Studies and Theory - 2006, 3010, 3144, 3258, 4116, 4196.
Regional Population Studies - 1007, 1008, 1014, 1015, 1039, 2009, 3026, 3027, 4031, 4033, 4035-4037, 4058-4060, 4066, 4075, 4131, 4157, 4275.

France (cont.):
Spatial Distribution - 1007, 1008, 1039, 2333, 4112, 4114, 4116, 4121, 4131, 4132, 4368.
Trends in Population Size - 1014, 4066, 4157.
Mortality - 1007, 1059, 2078, 2086, 2087, 2090, 2107, 2113, 2369, 3026, 3076. 3111, 3165, 4157, 4196, 4204, 4209.
Fertility and Natural Increase - 1217, 2132, 2153, 3026, 3144, 3162, 3165, 3288, 4157.
Marriage, Divorce, and the Family - 1212, 2316, 3026, 3165, 4157.
International Migration - 2178, 4066, 4274, 4275, 4293, 4430.
Internal Migration - 1039, 1181, 2320, 4033, 4131, 4293, 4316.
Characteristics - 1014, 1039, 1139, 1181, 1310, 2211, 2221, 2412, 3026, 3027, 3207, 3220, 3230, 3282, 3402, 4059, 4066, 4196, 4275, 4430, 4477.
Demographic and Economic Interrelations - 1166, 1181, 1191, 2289, 3010, 3258, 3260, 4132, 4368, 4430.
Other Interrelations - 1139, 2113, 2316, 3220, 3230, 3282.
Policies - 1212, 1213, 1217, 2316, 2320, 3286, 3288, 4075, 4428, 4430.
Methods of Research and Analysis - 1008, 1139, 2333, 3111, 3144, 4114, 4116, 4477.
Organization and Administration - 1258, 1259, 3207, 3230, 4031, 4477.
Bibliographies - 1059, 2369.
Official Statistics - 1258, 1259, 1310, 2211, 2412, 2413, 3402, 4058, 4204, 4316, 4477, 4528.
Germany - 2013.
Germany. Democratic Republic - 2050, 3025, 3089, 4475.
Germany. Federal Republic:
General Population Studies and Theory - 4126, 4417.
Regional Population Studies - 1022, 2018, 2019.
Spatial Distribution - 1022, 1311, 2018, 2042, 2046, 2414, 4109, 4117, 4126.
Trends in Population Size - 3066, 4117, 4135.
Mortality - 1058, 1073, 2081, 2087, 2114, 3099, 4176.
Fertility and Natural Increase - 2149, 2307, 2310, 2312, 2314, 4224, 4246, 4268.
Marriage, Divorce, and the Family - 4268, 4417.
International Migration - 1115, 1120, 1314, 2181, 2182, 2247, 3176, 3179, 3192, 3292, 4308-4310.
Internal Migration - 1121, 1126, 2202, 2203, 3179, 4328.
Characteristics - 1313, 2213, 2229, 2232, 2240, 2247, 2361, 3066, 4381, 4477.
Demographic and Economic Interrelations - 2268, 3176, 4310, 4381.
Other Interrelations - 1115.
Policies - 2307, 2310, 2312, 2314, 3289, 3292, 4328, 4417.
Methods of Research and Analysis - 2361, 4477.
Organization and Administration - 1261, 2081, 2349, 2361, 3340, 4477.
Bibliographies - 2349.
Official Statistics - 1311-1314, 2232, 2414, 4246, 4477, 4529-4536.
Germany. West Berlin - 2131.
Greece - 2274, 2415.
Hungary - 1092, 1182, 1260, 1262, 2092, 2130, 3028, 3124, 4062.
Ireland - 1111, 2168, 2184, 2187, 3294, 3403, 3404, 4281, 4285, 4426, 4537.
Italy:
General Population Studies and Theory - 2017, 3105, 4276, 4282, 4317, 4343, 4382.
Regional Population Studies - 1006, 1023, 2007, 2017, 2020, 3022, 3043, 3224, 4039, 4065, 4101, 4154, 4351, 4354, 4382.
Spatial Distribution - 4039, 4101, 4130, 4455.
Trends in Population Size - 1006, 2339, 3075, 4065, 4153, 4154, 4159, 4160.
Mortality - 1062, 1316, 2085, 2093, 2126, 3086, 3105, 3106, 3121, 3153, 4174, 4180, 4181, 4217.
Fertility and Natural Increase - 1006, 2161, 3138, 3152, 3153, 3156, 4174, 4211, 4217, 4228, 4240, 4247.
Marriage, Divorce, and the Family - 1104, 4174, 4257, 4259, 4260, 4267.
International Migration - 1110, 2189, 2192, 3178, 3290, 4273, 4276, 4282, 4300.
Internal Migration - 4276, 4317.
Characteristics - 1006, 1023, 1175, 2161, 2236, 3224, 3225, 3228, 3235, 3364, 4101, 4343, 4346, 4351, 4354, 4374, 4477.
Demographic and Economic Interrelations - 1174, 1175, 2274, 2284, 2339, 3022, 3043, 3224, 3225, 3228, 3235, 3272, 3364, 4375, 4379, 4382, 4397, 4448.
Other Interrelations - 2093.
Policies - 2274, 3272, 3290, 4267, 4276, 4317.
Methods of Research and Analysis - 2339, 3105, 3106, 4257, 4282, 4382, 4448, 4455, 4477.
Organization and Administration - 4354, 4477.
Bibliographies - 3364, 4240, 4273, 4343.
Official Statistics - 1315, 1316, 3405, 3406, 4477, 4538.

Luxembourg - 1284, 3407.
Malta - 2416, 3182.
Netherlands:
General Population Studies and Theory - 3013, 4010, 4128, 4216.
Regional Population Studies - 4078, 4089, 4105.
Spatial Distribution - 3060, 4105, 4128.
Trends in Population Size - 1049, 3213, 4078.
Mortality - 1070, 3094, 3109, 3116, 3119, 4177, 4186, 4187, 4191.
Fertility and Natural Increase - 2146, 4078, 4177, 4216, 4235.
Marriage, Divorce, and the Family - 4255.
International Migration - 3295, 4078, 4278.
Internal Migration - 2204.
Characteristics - 3213, 4187, 4477, 4539.
Demographic and Economic Interrelations - 4078, 4128.
Other Interrelations - 2204.
Policies - 3295, 4078.
Methods of Research and Analysis - 3116, 4078, 4128, 4191, 4477.
Organization and Administration - 4477.
New Periodicals - 1284.
Official Statistics - 1284, 4477, 4539.
Norway - 1051, 1089, 1090, 2101, 2308, 2417, 2418, 3408-3410, 4477.
Poland - 1018, 1042, 1043, 1076, 1093, 1098, 2050, 2094, 3016-3018, 3202, 3283, 4361.
Portugal - 1317, 2097, 2102, 2129, 2140, 2248, 3157, 3344, 4192.
Romania - 1036, 1085, 1208, 3034.
Saar - 1318, 4055.
Spain - 1009, 2023, 2027, 2048, 2083, 2104, 2125, 2147, 2215, 2315, 2419, 3155, 3280, 3411, 3412, 4018, 4064, 4271, 4303, 4336.
Sweden - 1087, 1090, 1103, 1105, 1282, 1319, 1320, 2003, 2137, 2148, 2272, 2308, 2333, 2420, 3006, 3219, 3347, 3413, 4011, 4038, 4164, 4170, 4237, 4355, 4412, 4477.
Switzerland - 1135, 1321, 2015, 2233, 2421, 2422, 3128, 3130, 3131, 3159, 3262, 4206, 4214, 4239, 4436, 4437, 4540.
United Kingdom:
Great Britain:
General Population Studies and Theory - 1001, 4019, 4196.
Regional Population Studies - 2012, 3015, 3145, 4042, 4053, 4054, 4399.
Spatial Distribution - 2333, 4114.
Trends in Population Size - 1001, 2066, 2067, 3271, 4053, 4399.
Mortality - 2106, 2108, 2115, 2123, 2127, 2293, 2429, 3108, 3114, 3330, 4054, 4178, 4183, 4184, 4195, 4196, 4205.
Great Britain (cont.):
Fertility and Natural Increase - 1082, 1090, 2135, 2141, 2145, 2293, 3145, 4054, 4229.
Marriage, Divorce, and the Family - 1082, 1199, 2135, 2291, 2293, 3271, 4054, 4264.
International Migration - 1001, 1111, 1324, 2012, 2183, 2188, 2199, 3293, 4042.
Internal Migration - 1219, 3203.
Characteristics - 1140, 1178, 1190, 1192, 1245, 1257, 2012, 2219, 2222, 2234, 3217, 3271, 4053, 4196, 4464, 4477.
Demographic and Economic Interrelations - 1001, 1178, 1190-1192, 2234, 2273, 2278, 2283, 3015, 3217, 3271, 4395, 4399, 4402, 4456.
Other Interrelations - 1140, 1199, 2012, 2145, 2278, 2291, 2293, 2295.
Policies - 1111, 1209, 1211, 1213, 1219, 1223, 2183, 2188, 2309, 3203, 3271, 3293, 4395.
Methods of Research and Analysis - 1001, 1140, 1245, 2066, 2067, 2291, 2293, 2333, 3114, 3145, 4114, 4205, 4399, 4456, 4464, 4477.
Organization and Administration - 1257, 2188, 3293, 4459, 4464, 4477.
Official Statistics - 1082, 1324, 2428, 2429, 3293, 4464, 4477.
England and Wales - 1322, 2061, 2423, 2426, 2427, 3067, 3414, 4195, 4541-4543.
England - 2008, 2087, 3051, 4227, 4542.
Northern Ireland - 2425, 3377, 3417, 4544.
Scotland - 1020, 1031, 1323, 2144, 2424, 3073, 3114, 3201, 3415, 3416, 4034, 4087, 4172, 4234, 4394, 4419.
Wales - 1195, 1275, 3376, 4541, 4543.
Yugoslavia:
General Population Studies and Theory - 4022.
Regional Population Studies - 2026, 3019, 3065, 4067, 4076.
Spatial Distribution - 3343.
Trends in Population Size - 3065, 3068, 3069, 3312, 4022, 4067, 4139.
Mortality - 1078, 3078, 3096.
Fertility and Natural Increase - 1091, 2150, 3139, 3146, 3150, 3154, 3285.
Marriage, Divorce, and the Family - 1325, 2214, 3174.
International Migration - 3019.
Internal Migration - 3019.
Characteristics - 1144, 1248, 2214, 2237, 2244, 3215, 3222, 3236, 3301, 3303, 3305, 3418, 4067.
Demographic and Economic Interrelations - 2253, 2270, 4022.
Other Interrelations - 4022.

Yugoslavia (cont.):
Policies - 3285, 4022, 4067.
Methods of Research and Analysis - 1248, 2343, 2344, 3139, 3154, 3222, 3301, 3303-3305, 3312, 3313, 3346, 3349, 3352, 3353.
Organization and Administration - 1253-1255, 2354, 3304, 3305, 3312, 3327, 3332, 3338, 3339, 3341, 3343, 3345, 3346, 3348-3354, 4478.
Professional Meetings and Conferences - 3361.
Bibliographies - 4022, 4067.
Official Statistics - 1253-1255, 1325, 2214, 2430-2432, 3236, 3339, 3341, 3345, 3346, 3349-3352, 3418, 3419, 4139, 4545-4548.

U.S.S.R.

U.S.S.R.:
Regional Population Studies - 3038, 4063, 4314.
Spatial Distribution - 1281, 2043, 2052, 3058, 4314.
Trends in Population Size - 2043, 4142.
Mortality - 3098.
Internal Migration - 2043, 4063, 4314.
Characteristics - 1142, 1146, 1160, 1164, 2228, 3038, 4363, 4367.
Demographic and Economic Interrelations - 2228, 2258, 4396.
Other Interrelations - 2043.
Policies - 1207, 2311, 4415.
Bibliographies - 1281.
Official Statistics - 1142.

ASIA

Asia - 1016, 1154, 1168, 3147, 4005.
Far East - 1271.
Middle East - 1270.
Southeast Asia - 2373, 3242, 4288.
Southern Asia - 2029.
Southwest Asia - 4499.
Burma - 1326, 4468.
Ceylon - 1064, 1327-1329, 2433, 2434, 3053, 3273, 3420, 4023, 4040, 4041.
China - 1185, 2055, 2165, 2185, 2377, 2435, 3173, 3209, 3216, 4081, 4152.
Cyprus - 2025, 4549.
Formosa - See Taiwan.
Hong Kong - 2185.
India:
General Population Studies and Theory - 4230, 4410.
Regional Population Studies - 1016, 1024, 1027, 3023, 3024, 3045, 4040, 4046, 4088, 4092, 4102, 4410.
Spatial Distribution - 1027, 4102, 4120, 4151, 4167.
Trends in Population Size - 1016, 4210.
Mortality - 1238, 2082, 2084, 3079, 4167, 4449.
Fertility and Natural Increase - 1238, 1333, 2155, 2160, 2438, 3141, 4210, 4218, 4223, 4230, 4231, 4242, 4245.
Marriage, Divorce, and the Family - 2155, 3141, 3226.
International Migration - 1116, 1332, 2195, 4040, 4270, 4284.
Characteristics - 1027, 1152, 1330, 2220, 2230, 2235, 2436, 2439, 3023, 3024, 3045, 3226, 3229, 3232, 4352, 4387.
Demographic and Economic Interrelations - 1165, 1185, 2235, 3245, 3256, 4151, 4231, 4352, 4384, 4387.
Other Interrelations - 1196, 4088, 4120.
Policies - 1116, 1215, 4092, 4218, 4407, 4409, 4410, 4416.
Methods of Research and Analysis - 1238, 1331, 1333, 2440, 3226, 4210, 4449.
Organization and Administration - 1249, 3024, 3226, 4223.
Bibliographies - 2371.
Official Statistics - 1024, 1330-1333, 2436-2441, 4550-4554.
Indonesia - 1123, 1132, 3036.
Iran - 1334, 3169, 3421.
Iraq - 1335, 3422.
Israel - 1113, 1128, 1131, 1336, 2177, 2179, 3302, 4045, 4269, 4294, 4295, 4307.
Japan:
General Population Studies and Theory - 4335.
Regional Population Studies - 1016, 1017, 4044, 4071, 4072, 4080, 4370.
Trends in Population Size - 1016.
Mortality - 1061, 2117, 3423.
Fertility and Natural Increase - 1101, 2154, 2156, 3160, 3161, 4225, 4232, 4233, 4244.
Marriage, Divorce, and the Family - 2167.
International Migration - 3276, 4289.
Characteristics - 1271, 1282, 1338, 2442, 3212, 3253, 3269, 4232, 4233, 4289, 4335, 4348, 4556.
Demographic and Economic Interrelations - 1017, 2277, 3253, 3259, 3269, 4370.
Other Interrelations - 1017, 1282, 3276.
Policies - 1101, 2156, 4072, 4244, 4407, 4408.
Organization and Administration - 3212.
Bibliographies - 1271, 1282, 2372.
New Periodicals - 1286.
Official Statistics - 1286, 1337, 1338, 2442, 3423, 4555, 4556.
Korea - 1017, 1187, 1273, 2047.
Lebanon - 4090.
Malaya, Federation of - 1130, 2065, 2195, 2443.

Nepal - 4557.
North Borneo - 2033.
Pakistan - 1027, 1116, 2055, 3163, 4122, 4270, 4387, 4407, 4409, 4558.
Philippines - 1016, 2035, 2444, 2445, 3061, 3151, 3424, 4559.
Portuguese India - 1339.
Sarawak - 3040.
Singapore - 4220.
Taiwan - 2016, 2038, 2039.
Thailand - 1016, 2055.
Turkey - 2198, 3194, 4050, 4056, 4313, 4560.

AFRICA

Africa - 1114, 1154, 2036, 2111, 2166, 2340, 2380, 3037, 3147, 3178, 4085, 4100, 4252, 4503.
East Africa - 1137.
North Africa - 3369, 4274, 4295.
Southwest Africa - 3243.
West Africa - 3032.
Algeria - 2446, 3026, 3210, 4068, 4079, 4275, 4561.
Anglo-Egyptian Sudan - See Sudan.
Angola - 3237.
Basutoland - 3062.
Belgian Congo - 2089, 3113, 3268, 3284, 3425, 4070.
British East Africa - 1198, 4297.
British West Africa - 4077.
Cameroons (Br. Adm.) - 1028.
Cameroons (Fr. Adm.) - 1028, 2060.
Cape Verde Islands - 3426, 4069.
Egypt - 2447-2449, 4008.
French Equatorial Africa - 2024, 3196, 3427, 3428.
French West Africa - 1340, 2112, 3239, 3429, 4118.
Gold Coast - 1083, 1221, 2169, 2231.
Kenya - 1176.
Libya - 1110.
Madagascar - 3047, 3211, 3234, 3430, 4270.
Morocco (French) - 1341-1343, 2205, 4248, 4299, 4350.
Moroccan Protectorate (Spain) - 3042.
Mozambique - 1344, 1345, 3237, 3431.
Nigeria - 1221, 2450, 2451, 4119, 4467.
Northern Rhodesia - 2452, 4302.
Portuguese Guinea - 2210.
St. Helena - 2034.
Somaliland (Ital. Adm.) - 3031.
Southern Rhodesia - 1129, 1346, 2453-2455, 4302.
Sudan - 1133, 4562.
Tanganyika - 1083, 1347, 1348, 3100, 4091.
Togoland (Br. Adm.) - 1028.
Togoland (Fr. Adm.) - 1028, 2032.
Tunisia - 1218, 2356, 4047.
Uganda - 1083, 1198, 4380.
Union of South Africa - 1096, 1100, 1231, 2058, 2059, 2062, 2321, 2456, 3048, 4284, 4563.

OCEANIA

Oceania - 1026, 1154, 2374, 2318.
Australia - 1026, 1106, 1349, 2128, 2175, 2249, 2323, 2324, 3020, 3115, 3175, 3185, 3190, 3218, 3248, 3363, 4023, 4073, 4189, 4272, 4393, 4424, 4498, 4564.
British Solomon Islands - 1026.
Cook Islands - 4565.
Fiji Islands - 1026, 4171.
French Oceania - 2457.
Hawaii - 1159, 1294, 1297, 1298, 2400, 3188, 4074, 4339.
Nauru - 1019.
New Caledonia - 4094.
New Guinea - 3029.
New Hebrides - 1026.
New Zealand - 1026, 1050, 1350, 2100, 2458, 3175, 3238, 3249, 3363, 3367, 3432, 4321.
Niue - 4566.
Papua - 1026.
Polynesia - 4043.
Tonga - 1026.
Western Samoa - 1026, 1351.

OTHER REGIONAL CLASSIFICATIONS

World:
General Population Studies and Theory - 2002, 3007, 4015, 4371.
Regional Population Studies - 2037, 2051, 4084.
Spatial Distribution - 2044, 2051, 3049, 3055, 4106.
Trends in Population Size - 1044, 1051, 2288, 3007, 3072.
Mortality - 3132, 3135.
Fertility and Natural Increase - 2002.
International Migration - 3183, 3291.
Internal Migration - 3055.
Characteristics - 1138, 2288, 3055.
Demographic and Economic Interrelations - 1051, 1167, 2255, 2288, 3246, 3247, 3270, 4015, 4371, 4373.
Other Interrelations - 2037, 3055.
Policies - 1210, 1216, 3183, 3270, 3291.
Methods of Research and Analysis - 3049, 3055.

World (cont.):
Organization and Administration - 1251.
Bibliographies - 1138, 3374.
Intercontinental:
General Population Studies and Theory - 3059, 3264, 4115.
Spatial Distribution - 3059, 3275, 4115, 4123.
Trends in Population Size - 3071, 3250, 3436.
Mortality - 2077, 2079, 2120, 3136, 3335, 3336, 3433, 3434, 4173, 4208.
Fertility and Natural Increase - 2079, 3158, 4243.
International Migration - 1112, 1118, 3177, 3181, 3184, 3187, 3264, 3298, 3299, 3371, 4277, 4304, 4306, 4311, 4422, 4427, 4431, 4434.
Internal Migration - 3264, 3275, 4322.
Characteristics - 2224, 3250, 3263, 4338, 4347, 4472-4474.
Demographic and Economic Interrelations - 2079, 2258, 2263, 2306, 2370, 3250, 3257, 3263, 3264.
Other Interrelations - 2079, 2297, 2299, 3059, 3275, 4115, 4173.
Policies - 1118, 1204, 2306, 3187, 3264, 3298, 3299, 4306, 4338, 4413, 4420, 4422, 4427, 4431, 4434.
Methods of Research and Analysis - 3250, 3328, 3355, 3356.
Organization and Administration - 1252, 1264, 1269, 3324, 3328, 3329, 3335-3337, 3355, 3356, 3437, 4463, 4471-4474.
Professional Meetings and Conferences - 1266, 1269, 3181, 3184, 3275, 3337, 3355, 3356, 4277, 4322, 4413.
Bibliographies - 1274, 2370, 2381, 3329, 3371, 3435, 4306.
Official Statistics - 1252, 1264, 3433-3437, 4567.
American Nations - 1153, 2216, 3231, 4276, 4461.
Arctic - 1156.
British Commonwealth - 1268, 2352, 3293, 4280.
Caribbean - 2004, 2041, 4222, 4298, 4495, 4496.
Latin America - 1233, 1278, 2196, 2375, 2376, 2379, 3030.
South Pacific - 2318.

AUTHOR INDEX

- A -

Aagesen, Aage - 4289.
Acsádi, György - 2332.
Adair, F.L. - 2109.
Adloff, Richard - 3242.
Adriasola, G. - 1057.
Adyanthaya, N.K. - 3256.
Agarwala, S.N. - 4210.
Aguilera, Francisco - 2379.
Akademie für Raumforschung und Landesplanung (Hannover) - 2042.
Åkerrén, Y. - 4237.
Aki, Koichi - 4370.
Albert, Jean F. - 1191.
Albrecht, Ruth - 1134.
Aldama C., Alvaro - 4175.
Alexander, Chester - 4403.
Alexander, Frank - 1041.
Algeria. Service de Statistique Générale - 2446, 4561.
Allain - 4293.
Allaway, Norman - 3093.
Allen, G.R. - 2333.
Allen, Gordon - 4435.
Allison, Anthony - 4337.
Alm, Ingvar - 1087.
Almeida Garrett, António de - 2129.
Altenderfer, Marion - 1148.
Alves, Elígio - 2209.
Alves Martins, C.M. - 4001, 4002.
Alves Morgado, Nuno - 2210.
American Academy of Political and Social Science - 3037.
American Eugenics Society - 3279.
American Sociological Society - 4003.
American Statistical Association - 4004.
American Telephone and Telegraph Company - 2224.
American University of Beirut. Economic Research Institute - 1270.
Anastasi, Anne - 2142.
Anderson, Anton H. - 4082.
Anderson, Odin W. - 1232.
Anderson, W.E. - 4290.
Andrade, José L. de - 3195.
Andrade, Ovídio de, Jr. - 2162, 4342.
Antoine, Jacques - 2211.
Aragao, J.M.M. de - 3120.
Arbelo Curbelo, Antonio - 2147.
Argentina. Consejo Nacional de Educación - 3394.
Argentina. Instituto Etnico Nacional - 4330, 4502.
Arias B., Jorge - 1233.
Ariès, Philippe - 3162.
Ariga, Kizaemon - 2167.
Armsby, Henry H. - 1230.
Armstrong, C.M. - 4004.
Arnould, E. - 3076.

Aron, Raymond - 4005.
Aronson, Robert L. - 1170.
Arruda Gomes, Orêncio L. de - 2348.
Ashley, E. Everett - 1189.
Association for the Aid of Crippled Children - 1088.
Associazione per lo Sviluppo dell'Industria nel Mezzogiorno (Svimez) - 1006.
Auerbach, Frank L. - 2200.
Aughterson, W.V. - 3185.
Australia. Commonwealth Bureau of Census and Statistics - 1349, 4564.
Australia. Parliament - 1019.
Australia. South Australia. Aborigines Protection Board - 2249.
Austria. Statistisches Zentralamt - 1071, 1141, 2110, 2409, 4197, 4198.
Averanga, Asthenio - 4331.
Axel, Robert - 2282.

- B -

B., V. - 3290.
Babić, Milan - 3301.
Bachi, Roberto - 3302, 4269.
Bachrach, Arthur J. - 4086.
Bäder, A. - 2130.
Baker, W.J. - 4378.
Balaban, Vojislav - 3303, 4139.
Baldus, Herbert - 3362.
Balicka, Sophya M. - 1016.
Balogh, Elemér - 4306.
Ban, Milenko - 3222, 3304.
Bancroft, Gertrude - 1173, 1256.
Bandettini, Pierfrancesco - 3138.
Bandyopadhyay, K.S. - 1165.
Banks, A. Leslie - 4085.
Bansil, P.C. - 3245.
Barberi, Benedetto - 3121.
Barclay, R.S. - 4087.
Baron, A.M. - 4248.
Baron, R. - 4270.
Barrera, H.E. - 3112.
Barros, Ernani Thimóteo de - 1125.
Barth, Fredrik - 3169.
Bascom, William - 3055.
Bash, Wendell H. - 4226.
Bastos de Avila, Fernando, S.J. - 1220.
Bates, Marston - 4006.
Batschelet, C.E. - 4004.
Battaglia, R. - 2036.
Bauer, P.T. - 1221.
Baumgarten, Franziska - 4341.
Beall, John W. - 4388.
Beardsley, Richard K. - 1271.
Beaujeau-Garnier, J. - 4100.
Beauverger, M. de - 4422.
Bechtold, L. - 2307.
Beckerman, Anita R. - 4137.
Beckers, R. - 3319.
Beegle, J. Allan - 1155, 2225.
Beggs, Walter K. - 4082.
Begtić, Mustafa - 3305.
Behrendt, Richard F. - 4291.
Beijer, G. - 2265.
Bejar Alamo, Juan - 3306.
Belgian Congo. Secrétariat Général. Section Statistique - 3425.
Belgian Congo. Service des Affaires Indigènes et de la Statistique - 3113.
Belgium. Association des Caisses d'Allocations Familiales - 1206.
Belgium. Institut National de Statistique - 2174, 3166, 4249.
Bellettini, Athos - 4101, 4343.
Belshaw, Horace - 1168, 3249.
Beltrami, Daniele - 2007.
Benedetti, Rinaldo de - 3022.
Benelux. Secrétariat-Général de l'Union Douanière Néerlando-belgo-luxembourgeoise - 1284.
Benjamin, B. - 4399, 4464, 4486.
Berelson, Bernard R. - 2294.
Bermuda. Census Committee - 3378.
Bertin, J. - 2051.
Bianchini, Mario - 4045.
Bickert - 2131.
Biehl, Max - 2043, 4314.
Bierschenk, Theodor - 4361.
Billeter, E. - 3131.
Bjork, Lief - 1207.
Black, C.E. - 2366.
Blacker, C.P. - 4242.
Blacker, John - 2132.
Blackwell, Gordon W. - 4086.
Blake, Judith - 4266.
Blanco, Rodriquez F. - 2125.
Block, A. - 1142.
Blumberg, Godfrey - 4213.
Boak, Arthur E.R. - 4029.
Boalt, Gunnar - 1282.
Bocaz S., Albino - 4440.
Böckli, Hans R. - 4436.
Boe, Finn - 1089.
Bogue, Donald J. - 1173, 2068, 2334, 3046, 3055, 4113, 4147, 4494.
Bolaños, René Sánchez - 2245.
Boldrini, Marcello - 4211.
Bolletino Quindicinale dell'Emigrazione - 4271.
Bolte, Karl M. - 2266.
Boner, Harold A. - 3001.
Bonham, John - 2295.
Bonnel, P.H. - 2111.
Bonnicel - 4293.
Borgatta, Edgar F. - 2133, 2159.
Borhegyi, Stephan F. de - 4030.
Borrie, W.D. - 1106, 2175, 2323, 3175, 3185, 3363, 4272.
Bose, Ashish - 4046.
Boulton, E.A. - 4393.
Bowen, Ian - 1001.
Boyer Banse, L. - 4047.
Bradford, E.S. - 2049.
Brainerd, C.P. - 4004.

Brass, W. - 1234.
Brazil. Conselho Nacional de Estatística - 1143, 1151, 2075, 2096, 2201, 2226, 2246, 2335, 3395, 4048, 4049, 4133, 4148, 4149, 4188, 4199, 4212, 4332, 4333, 4344, 4362, 4479.
Brazil. Departamento Nacional de Saúde. Serviço Federal de Bioestatística - 1303.
Brazil. Laboratório de Estatística - 2001.
Brazil. Ministério da Educação e Cultura - 2367.
Brazil. Serviço Nacional de Recenseamento - 2404, 4522.
Breese, Gerald - 2260.
Brennan, T. - 1195, 4394.
Bretau, H. - 2112.
Breutz, P.L. - 2058, 2059.
Breznik, Dušan - 3139.
Brice, W.C. - 4050.
Brickell, Henry M. - 4004.
Bright, Arthur A., Jr. - 2028.
Brink, Edward L. - 4334.
British Guiana. Immigration Agent General - 2250.
British Medical Association - 3072.
Brown, Elsie - 2379.
Brown, Hugh H. - 4441.
Brown, William O. - 3037.
Browning, P.R. - 1191.
Buchanan, Norman S. - 3250.
Buchanan, William - 3278.
Bülbring, Maud - 2199.
Bunle, Henri - 1266, 2002.
Burgdörfer, Friedrich - 2044, 3049.
Burkhardt, Felix - 3002.
Burma. Census Department - 1326.
Buschmann, K.H. - 4102.
Busia, K.A. - 1083.
Buttrick, John A. - 1172.
Byrd, Oliver E. - 2368.

- C -

Caetano, Marcello - 3237.
Caffè, Federico - 3364.
Cairncross, A.K. - 1020.
California. State Department of Finance - 1045, 4140.
Calin, R. - 1208.
Calkins, L.A. - 2080.
Calkins, Robert D. - 2256.
Calwell, A.A. - 2323.
Camara, Arruda - 3167.
Campbell, Angus - 1200.
Campbell, Arthur A. - 2026.
Canaan, Gershon - 1128.
Canada. Department of Citizenship and Immigration - 2322.
Canada. Dominion Bureau of Statistics - 1063, 1288, 2064, 2069, 2386, 2387, 3223, 4141, 4504.
Canada. Dominion Bureau of Statistics. Special Survey Division - 2388.
Canada. Office of the Supervisor of Government Publications - 3365.
Canada. Unemployment Insurance Commission - 2227.
Canadian Welfare Council - 1272.
Candiotti, Ch. - 2107.
Cannon, Kenneth L. - 4250.
Cantor, Marjorie - 1122.
Caparrós, Rogelio - 4051.
Cape Verde Islands. Serviços de Administração Civil - 3426.
Cappelletti, Fausto - 4292.
Cappieri, Mario - 3023.
Caranti, Elio - 3307.
Carceller, C. - 2083.
Caribbean Commission - 4495.
Caribbean Commission. Central Secretariat - 4496.
Carleton, R.O. - 3267.
Carlsson, G. - 3219.
Carneiro, José F. - 3186.
Carter, Hugh - 1301, 3168, 4251, 4515.
Carvalho, Alceu Vicente de - 2143.
Celler, Emanuel - 1116.
Centers, Richard - 4213.
Central African Statistical Office - 1346, 2452-2455.
Central Mortgage and Housing Corporation. Economic Research Department (Ottawa) - 1193.
Centre Européen d'Etudes de Population - 4423.
Ceylon. Department of Census and Statistics - 1064, 1327-1329, 2433, 3053, 3273, 3420.
Ceylon. Registrar General - 2434.
Chakravarti, N. - 1165.
Chandrasekhar, S. - 2084, 2306.
Chapin, F. Stuart, Jr. - 1030, 3035.
Chapman, W. Dobson - 1031.
Chatelain, A. - 4031.
Chatten, S.J.R. - 4189.
Chen, Cheng-Siang - 2016.
Chevalier, Louis - 4404.
Child, M. - 1129.
Chile. Dirección General de Estadística - 3396.
Chile. Instituto de Asuntos Interamericanos. Servicio Nacional de Estadística y Censos - 4523.
Christian, David E. - 3191.
Clark, Colin - 1046, 2288, 4374.
Clark, Philip J. - 4103.
Clarke, John J. - 1209.
Claude, Inis L. - 3291.
Clift, Garrett G. - 3014.
Clough, Shepard B. - 4375.
Coale, Ansley J. - 3206, 3308.
Cobeljić, N. - 2253.
Cochran, William G. - 2336, 4442.
Coe, Paul E. - 4315.

Cohen, Henry - 4004, 4465.
Cohen, Morris - 4389.
Cointet, A. - 4052.
Colacurci, A. - 3086.
Coller, Richard W. - 1016.
Collier, Adam - 1020.
Collins, Henry B. - 1156.
Colm, Gerhard - 2257.
Colombia. Departamento Administrativo Nacional de Estadística - 2405, 2406, 4524.
Colombo, Bernardo - 2017, 4443.
Colombo Plan for Cooperative Economic Development in Southern and Southeast Asia. The Consultative Committee - 2029.
Colpitts, R.V. - 4238.
Colson, Elizabeth - 1157.
Comay, Michael - 4307.
Commonwealth Club of California - 1222.
Confederazione Italiana Sindacati Lavoratori - 4379.
Congleton, A.A. - 3238.
Conrad, Alfred H. - 1191.
Consejos Instituto Arnaldo de Vilanova - 2382.
Cook, S.F. - 4032.
Corbo, S. - 2085.
Cosmo, Giandomenico - 4273.
Costa Maia, J. - 2097.
Costa Rica. Dirección General de Estadística y Censos - 4505.
Costa Rica. Ministerio de Economía y Hacienda - 2030.
Council for Technological Advancement - 4345.
Council of the British National Bibliography, Ltd. - 4497.
Council of Europe - 1117.
Court, W.H.B. - 3015.
Cowan, L. Gray - 1235.
Cox, Peter R. - 4053, 4054.
Craig, Jean - 2323.
Crampon, L.J. - 4096.
Crane, Robert I. - 3055.
Crosetti, Albert H. - 4452.
Crosse, V. Mary - 1090.
Croze, Marcel - 2086.
Cullen, T.J.V. - 4200.
Cutillo, S. - 3156.
Cutler, Sidney J. - 4201.
Cuzzort, Raymond P. - 4108.
Cyprus. Statistics Office - 4549.

- D -

Da Costa, C.C. - 3087.
Dallas, K.M. - 4424.
Dandekar, Kumundini - 4223.
Dandekar, V.M. - 3024.
D'Anna, Francesco C. - 3224, 3225.
Darby, Henry C. - 2008.
Daric, Jean - 4055.
Darkot, Besim - 4056.
Darling, F. Fraser - 4087.
Darrouy, H. - 4274.
Dauncey, Marjorie - 2127.
Davidson, Sir Andrew - 4025.
Davidson, H.K. - 1196.
Davies, D.F. - 3104.
Davis, Elizabeth G. - 4500.
Davis, Joseph S. - 3252.
Davis, Kingsley - 3055, 3059, 3274.
Dawson, S.R. - 1130.
Deane, Phyllis - 1274.
Deardorff, Neva R. - 4358.
De Coster, Sylvain - 2134.
De Farcy, H. - 1131.
De Grazia, Alfred - 2296.
De Huszar, George B. - 3038.
Dekanić-Milosević, V. - 1091.
Delaspre, Suzanne - 4033.
Delladio, A. - 4359.
Delprat, Raymond - 3251.
Demaria, Giovanni - 2258.
Demerath, Nicholas J. - 3035.
Denmark. Ministry for Foreign Affairs - 1047.
Denmark. Statistiske Departement - 1308, 2410, 3401.
Denmark. Sundhedsstyrelsen - 1307, 4202.
DePorte, Joseph V. - 2079.
Dereta, Borislav - 2354.
Dérobert, L. - 2113.
Deschamps, Hubert - 3187.
Desmeules, Annie - 3159.
Desput, D. - 3285.
Deutsch, Gertrude - 1032.
Deutschman, Z. - 2111.
Devereux, George - 4243.
Dewdney, John C. - 4034.
Dewhurst, J.F. - 4057.
Dietrich, T. Stanton - 3164, 3208.
Diettrich, Sigismond de R. - 2045.
Dimnić, Filip - 3339.
Dinkel, Robert M. - 3035.
Dittrich, Erich - 3289.
Dobek, S. - 2094.
Dodd, Stuart D. - 4007.
Dominican Republic. Dirección General de Estadística - 2031, 2212, 3379.
Dominican Republic. Dirección General de Estadística. Oficina Nacional del Censo - 2389.
Donahue, Wilma - 1189.
Donnelly, J.F. - 3088.
Donnelly, M.M. - 3122.
Donohue, James F. - 1072.
Dorjahn, V.R. - 4252.
Dorner, Peter - 2254.
Doroghi, Ervin - 4253.
Downham, J.S. - 1257.
Dube, S.C. - 4088.
Dublin, Louis I. - 1194, 2079.

Ducoff, Louis J. - 4004.
Dumesnil, A. - 2051.
Duncan, Beverly - 3055, 4444.
Duncan, Otis Dudley - 3055, 4150, 4444.
Du Plessis, I.D. - 1231.

- E -

Eason, Warren - 2228.
East African Statistical Department - 1347, 1348, 4380.
Eastern Economist, The - 2435, 4151.
Eckler, A. Ross - 4004.
Eckstein, Alexander - 4152.
Economist (London) - 1223.
Ecuador. Dirección General de Estadística y Censos - 3397, 4525.
Edding, Friedrich - 2176, 3176, 4308.
Egner, Erich - 4411.
Egypt. Census Department - 2447.
Egypt. Statistical Department - 2448, 2449.
Eiriksson, Benjamin H.J. - 4390.
Eisenstadt, S.N. - 2177.
Ekblad, Martin - 4412.
Eldridge, Hope T. - 1204.
Eli-Av, A. - 1113.
Ellis, George H. - 2028.
Ellis, Howard S. - 3250.
El Salvador. Dirección General de Estadística y Censos - 1267, 1289, 2098.
England. Birmingham. Central Statistical Office - 2429.
Esmonin, Esmond - 2009.
Etcheverry, M.A. - 2217.
Evangelische Kirche in Deutschland - 3192.
Evans, Francis C. - 4103.
Evers, Hans - 4109.
Eyde, David B. - 3188.

- F -

Fage, Anita - 2006.
Fairbank, John - 2377.
Falkland Islands - 3399.
Falkland Islands. Colony [excluding the Dependencies] - 3398.
Falls, Harold F. - 2297.
Faria, H.F. de - 3120.
Farman, Carl H. - 1210.
Farmer, B.H. - 1027.
Fasler, Samuel - 4214.
Faublée, J. - 3177.
Febvay, Maurice - 2086, 3207.
Federal Reserve Bank of Dallas - 4376.
Federici, Nora - 3105, 4130, 4153, 4154, 4346.
Ferguson, John A. - 4498.
Ferguson, S.M. - 1211.
Festinger, Leon - 2337.
Festy, Octave - 4035-4037.
Field, Henry - 4499.
Figá-Talamanca, Mario - 3050.
Finer, Herman - 1205.
Finetti, Bruno de - 3106.
Fink, L. - 4407.
Finland. Tilastollinen Päätoimisto - 1013, 1065, 1309, 2411, 3123, 4203, 4527.
Finnish Foreign Trade Association - 1224.
Fiorelli, Sergio - 4260.
Fisher, Robert M. - 4110.
Fitzgerald, H. - 1211.
Fleisher, Eric W. - 4038.
Flood, Peter - 3288.
Florence, P. Sargant - 4111.
Flühmann, F. - 1135.
Folkers, J.U. - 4328.
Foncannon, Howard F. - 1265.
Food and Agriculture Organization of the United Nations - 4347.
Forbes, H. Scott - 3217.
Ford, P. - 4227.
Ford, Thomas R. - 4185.
Forgacs, J. - 1092.
Forman, Carl H. - 3270.
Fortes, Meyer - 1083.
Fortune - 2063.
Foundation for the Research of the Population of the Zuyderzeepolders - 4089.
France. Direction de la Statistique Générale - 1258, 1310, 2412.
France. Etudes Sociales Nord Africaines - 2178.
France. Institut National d'Etudes Démographiques - 1259, 3209, 3220, 3286, 4275.
France. Institut National de la Statistique et des Etudes Economiques - 1166, 1181, 2267, 2413, 3165, 3210, 3402, 4058, 4204, 4316, 4528.
France. Ministère de la France d'Outre-Mer. Service des Statistiques - 2457.
France. Ministère de la Santé Publique - 2107, 2113, 2369.
France. Union Nationale des Caisses d'Allocations Familiales - 4293, 4480.
Franciosa, Luchino - 2036.
Frankenstein, Carl - 2179.
Fréchet, M. - 4112.
Freedman, Ronald - 1107, 4215.
Freeman, D.W. - 2119.
Freeman, J.T. - 2218.
Freire, Rémy - 4134.
French Equatorial Africa. Service de la Statistique Générale - 3196, 3427, 3428.
French West Africa. Haut Commissariat. Service de la Statistique Générale - 1340, 3239, 3429.
Friedensburg, Ferdinand - 3246.
Friedman, John R.P. - 4104.
Frisén, Carl M. - 4140.
Froelich, J.-C. - 2032, 2060.
Fromont, Pierre - 4008.

Froomkin, Joseph N. - 1169.
Frumkin, Robert M. - 2223, 2298.
Fürst, Gerhard - 3340.

- G -

G., M. - 3178.
Gabor, Andor - 1260.
Gabriel, Ralph H. - 1184.
Gaitskell, Hugh - 1190.
Gandhi, Vasundhara - 1215.
García-Frías, Roque - 4458.
Gardić, Lj. - 3341.
Garfinkle, Stuart - 4155.
Gärtner, H. - 2087.
Gasc, Paul - 1014.
Gaudefroy-Demombynes, Maurice - 4261.
Gay, F.G. - 4368.
Geary, R.C. - 2168.
Gedda, Luigi - 2299.
Geddes, W.R. - 3040.
Geijerstam, G.A.F. - 2148.
George, Pierre - 2180, 3054, 4363, 4445.
Germany. Federal Republic. Bavaria. Statistisches Landesamt - 1121.
Germany. Federal Republic. Bundesministerium für Arbeit - 2268.
Germany. Federal Republic. Bundesministerium für Gesamtdeutsche Fragen - 3025.
Germany. Federal Republic. Hesse. Statistisches Landesamt - 4533.
Germany. Federal Republic. Nordrhein-Westfalen. Statistisches Landesamt - 4135.
Germany. Federal Republic. Schleswig-Holstein. Statistisches Landesamt - 2229.
Germany. Federal Republic. Statistisches Bundesamt - 1126, 1311-1314, 2018, 2046, 2114, 2181, 2182, 2202, 2203, 2213, 2349, 2414, 3066, 3179, 4176, 4246, 4529-4532, 4534-4536.
Gernet, J. - 3177.
Gibbs, Jack B. - 1197.
Gigli, Fernanda - 4039.
Gil, B. - 4269, 4294, 4295.
Gille, Halvor - 1044, 2308.
Gilliam, Alexander G. - 2118.
Gilmore, Harlan W. - 3035.
Gilmour, G.P. - 3039.
Gini, Corrado - 3003, 3004, 3320, 4276, 4317.
Ginsburg, Norton S. - 3055.
Girard, Alain - 3230.
Gist, Noel P. - 1152, 2230.
Giurovitch, Gualterio - 4228.
Glass, Bentley - 2300.
Glass, D.V. - 1082, 1282, 2135.
Glatzl, E. - 4309.
Glick, Paul C. - 4262, 4360.
Glubin, Rose I. - 2391, 2392.
Godoy Urrutia, César - 3231.
Golden, Hilda H. - 3059.
Goldstein, M.S. - 4182.
Goldstein, Sidney - 1236, 4004, 4318-4320.
Gordon, Israel - 2309.
Gordon, Margaret S. - 2279.
Government Affairs Foundation, Inc. - 2281, 2282.
Gramberg, A. - 2247.
Gramm, H. - 3089.
Graphic Chart Service - 3077.
Great Britain. Board of Trade - 1324.
Great Britain. British Information Services - 2183.
Great Britain. Colonial Office - 1268, 2033, 2034, 2231, 3040.
Great Britain. General Register Office, England and Wales - 1322, 2423, 2426, 2427, 3067, 3414, 4541-4543.
Great Britain. General Registry Office of Births..., Scotland - 1323, 2424, 3114, 3415, 3416.
Great Britain. Home Office - 3376.
Great Britain. Lord High Chancellor - 4459.
Great Britain. Ministry of Food - 2291.
Great Britain. Ministry of Health - 2115, 2428.
Great Britain. National Council of Social Service - 3217.
Great Britain. Parliament - 3073.
Great Britain. Royal Commission on Population - 2135.
Great Britain. Secretary of State for Commonwealth Relations - 3293.
Great Britain. Treasury - 3108.
Grebenik, E. - 1082, 2135, 4486.
Greece. Genikē Statistike Hypēresia - 2415.
Greenland. Landslaege - 2390.
Gregg, Alan - 4009.
Greville, Thomas N.E. - 2338.
Groenman, Sjoerd - 4481.
Gromadzki, W. - 1093.
Gross, Edward - 2259.
Grunebaum, G.E. von - 3059.
Guatemala. Dirección General de Estadística. Oficina Permanente del Censo - 1290.
Guerrin, A. - 3247.
Gulick, John - 4090.
Gulliver, P.H. - 4091.
Gumbel, E.J. - 4190.
Guralnick, Lillian - 1068.

- H -

Haas, J.H. de - 3109, 4177, 4186.
Haiti. Institut Haïtien de Statistique - 2350, 3380, 4460.
Hajnal, John - 4156, 4486.
Hallman, N. - 3103.
Halsey, H.H. - 1056.

Hamilton, C. Horace - 2099.
Hammond, E.C. - 2116.
Hanczaryk, Edwin W. - 2269.
Handlin, Oscar - 1021, 1158.
Hanna, Frank A. - 4400.
Hannigan, A. St.J.J. - 2169.
Hanrath, Joh. J. - 1132.
Hanson, E.P. - 3041.
Hardie, B.G. - 3367.
Harmiston, Floyd K. - 4099.
Harmsen, Hans - 2310.
Haro García, F. - 3155.
Harris, Chauncy D. - 3059.
Harris, Dorothy L. - 2334.
Harris, F.F. - 2351.
Hart, David M. - 3042.
Hart, Hornell - 1053.
Hasegawa, T. - 2117.
Hatt, Paul K. - 3005.
Hauser, Fritz - 4437.
Hauser, Philip M. - 3055, 4136.
Havighurst, Robert J. - 1134.
Haw, R.H. - 4205.
Hawaiian Sugar Planters' Association - 1159.
Hawley, Amos H. - 1016, 3055, 3151.
Hazlewood, Arthur - 2370.
Heberle, Rudolf - 3035, 3180.
Heckscher, Eli F. - 2003.
Heckscher, Gunnar - 2003.
Heinel, E. - 2019.
Helleiner, Karl - 2010.
Hendricks, Walter A. - 2361.
Hennepin - 3090.
Henripin, Jacques - 2011, 4466.
Henry, Louis - 1015, 1212, 2132, 2136, 3026, 3140, 4023, 4059, 4060, 4157, 4178.
Herber, O. - 1094.
Heughan, Hazel E. - 3201.
Heuse, Georges A. - 1002.
Heuyer, Georges - 1139.
Hill, George W. - 4296.
Hill, L.C. - 3217.
Hill, Reuben J. - 2173, 3309, 4254.
Hill, Ruth O. - 4296.
Hingyi, Gy. - 1182.
Hirshleifer, J. - 2271.
Hitt, Homer L. - 1054, 3035.
Hocking, W.S. - 4183.
Hoffman, Erwin F. - 2118.
Hoffman, Morton - 4004.
Hofstee, Evert W. - 2204, 4010.
Holla, W.A. - 3323.
Holloway, Robert J. - 1033.
Holm, S. - 3006.
Holman, E.J. - 3287.
Holt, H.E. - 2323, 2324.
Honduras. Laws, Statutes, etc. - 3342.
Honduras. Servicio Informativo del Banco Central de Honduras y del Banco Nacional de Fomento - 4061.
Hooks, Janet M. - 1108.
Hoover, Edgar M. - 3059.
Hopper, Mabel L. - 1122.
Horn, D. - 2116.
Horowitz, C. Morris - 4004.
Hornig, Alfred - 2050.
Horstmann, Kurt - 2232, 2362, 4381.
Horton, Carrell - 2252.
Hosch, A.J. - 2233.
Hoselitz, Bert F. - 3059.
Hoszowski, Stanisław - 3016.
House, V.W. - 3051.
Howell, Trevor H. - 4395.
Hoyt, Elizabeth E. - 1108.
Hubback, Judith - 4229.
Huber, M. - 3027.
Hughes, Everett C. - 3059.
Hughes, H. Stuart - 4018.
Hungary. Központi Statisztikai Hivatal - 3028, 4062.
Hunt, Chester L. - 2035.
Hutchinson, Bertram - 3218.
Huyck, Earl - 4023.
Hyatt, Carl B. - 1229.
Hyrenius, Hannes - 2137.

- I -

Ichiro, Nakayama - 3259.
Ince, Sir Godfrey - 2234.
India. Ministry of Finance. Department of Economic Affairs - 2235.
India. Ministry of Home Affairs - 2436.
India. Ministry of Labour - 3226, 3232.
India. Registrar General - 1330-1333, 2371, 2437-2440, 4550, 4551, 4553.
India. [State.... Superintendent of Census Operations.] - 2441, 4552.
India. West Bengal. State Statistical Bureau - 4554.
Indonesian Affairs - 1123.
Industrial Relations Research Association - 1173.
Institute for the Study of the History and Culture of the U.S.S.R. - 2311, 4063.
Institute of Actuaries - 2283, 4195.
Institute of Bankers in Ireland - 2184, 3294.
Institute of East Asiatic Studies - 1273.
Institute of International Industrial and Labor Relations - 1170.
Institute of Jewish Affairs. World Jewish Congress - 1160.
Instituto Elcano. Departamento de Geografia Aplicada - 4064.
Inter American Statistical Institute - 1153, 2363, 4461.
Intergovernmental Committee for European Migration - 2185, 3366, 4425.
International Association for Research in Income and Wealth - 1274.
International Catholic Migration Commission - 2364.

International Institute of Differing Civilizations - 3275.
International Labour Office - 2186, 2355, 3257, 3266, 3293, 4277-4279, 4321, 4348, 4473, 4474.
International Labour Organisation - 4322.
International Social Security Association - 4413.
International Statistical Institute - 3355, 3356.
International Union for the Scientific Study of Population - 3375.
International Union of Official Travel Organisations. Research and Organisation Commission - 4304.
Iowa. Division of Vital Statistics - 2402.
Iran. Ministry of Interior. General Department of Statistics and Civil Registration - 1334.
Iran. Public Statistics Cooperative Organization - 3421.
Iraq. Ministry of Economics. Principal Bureau of Statistics - 1335, 3422.
Ireland. Republic. Central Statistics Office - 2187, 3403, 3404, 4537.
Ireland. Republic. Commission on Emigration and Other Population Problems, 1948-1954 - 4426.
Irvine, E.D. - 3217.
Isaac, Julius - 2188, 4280.
Islamic Cultural Centre - 1285.
Israel. Central Bureau of Statistics and Economic Research - 1336.
Istituto Italiano per l'Africa - 2036.
Italian Affairs - 1104, 1110, 1174.
Italy. Centro di Documentazione - 2020, 2189, 2236, 4247.
Italy. Commissione Parlamentare d'Inchiesta sulla Disoccupazione - 1175, 3043.
Italy. Documentary Center - 3152, 4065.
Italy. Istituto Centrale di Statistica - 1315, 1316, 3405, 3406, 4538.
Itoh, S. - 4233.
Ivanović, Branislav - 3078.
Iverus, Ivar - 4011.

- J -

Jacquemyns, G. - 2134.
Jaffe, A.J. - 3267.
Jagannadham, V. - 4092.
Jäger, Heinrich - 1022.
Jager, J. de - 4191.
Jaime Pujiula, P. - 3280.
Jain, S.P. - 1333.
James, G. - 3321.
Jansen, J.H.C. - 4255.
Janson, Carl-Gunnar - 1282.
Janssen, Fritz - 2312.
Japan. Bureau of Statistics - 1337, 1338, 2442, 4555.
Japan. Economic Counsel Board - 1286.
Japan. Ministry of Labor. Division of Labor Statistics and Research - 4556.
Japan. Ministry of Welfare - 2154.
Japan. Ministry of Welfare. Division of Health and Welfare Statistics - 3423.
Japanese Birth Control Institute - 4408.
Jardim, Germano G. - 2163, 3233, 3322.
Jecklin, H. - 4192.
Jenkis, H.W. - 4310.
Jensen, Marnie - 2038.
Johansen, John P. - 4372.
John, C.C. - 4230.
Johnson, Elmer H. - 3310.
Johnson, John L. - 3227.
Johnson, William H.E. - 3038.
Jones, Frederick W. - 4137.
Jones, Harold E. - 3221.
Joublin, F. - 4293.

- K -

Kannangara, I. - 3053.
Kantner, John F. - 1109.
Kapadia, K.M. - 3141.
Karmel, P.H. - 2323.
Katona, George - 4391.
Katz, Daniel - 2337.
Kaufman, Harold F. - 3035.
Kaufmann, Fritz - 4206.
Kelley, Samuel C., Jr. - 3074, 4447.
Kelus, Andrzej - 1136.
Kemp, Tage - 2301.
Kempthorne, Oscar - 1044.
Kendall, N. - 2088.
Kennedy, Albert J. - 4004.
Kenya - 1176.
Kephart, William M. - 4256.
Khajeh Nouri, A.G. - 3421.
Khander, R.H. - 4387.
King, Morton B., Jr. - 1066.
Kingston, Jorge - 1183.
Kirk, Dudley - 3007.
Kirov, I. - 3095.
Kiser, Clyde V. - 3148.
Kitagawa, Evelyn M. - 4113.
Klauzer, I. - 3068.
Klauzer, Jagoda - 3096.
Klein, Lawrence R. - 4391.
Klinger, András - 3124.
Knoepfli, Rolf - 4239.
Kocovskij, D. - 4396.
Kohl, Schuyler G. - 4179.
Kolb, William L. - 3059.
Koller, Siegfried - 1261.
Komatu, Y. - 4335.
Kooijman, S. - 3029.
Korenčić, M. - 2430.
Kornrumpf, Martin - 3193.
Korzybski, S. - 4114.
Kosambi, D.D. - 3079.
Kostanick, Huey L. - 3194.

Kostrowicki, J. - 1042.
Kovacev, M. - 1091.
Koya, Yoshio - 1101.
Kozak, O. - 3097.
Kraenzel, Carl F. - 1041.
Krieger, Kurt - 4467.
Krishnamurthy, T. - 1016.
Kuczynski, Robert R. - 3030.
Kuklinski, A. - 1043.
Kula, Witwold - 3017.
Kuznets, Simon - 2190, 4377.

- L -

Lader, Lawrence - 4414.
Lah, Ivo - 2270.
Lampard, Eric E. - 3059.
Lampe, P.H.J. - 4216.
Lancaster, H.O. - 2128.
Landscheide, M. - 1073.
Landucci, L. - 3153.
Lane, E.A. - 3323.
Langrod, G. - 4427.
Lannes, Xavier - 3181, 4066, 4131, 4281.
Lansing, John B. - 4391.
Lasorsa, Giovanni - 1023, 2339, 3228.
Lavedan, Pierre - 4115.
Lebel, R. - 1213.
Lebret, L.-J. - 4116.
Lecarpentier, Georges - 2006.
Legendre, Pierre - 2320.
Lehman, Harvey C. - 4401.
Lehmann, Hermann - 1137.
Lekachman, Robert - 3252.
Lem, T.B. - 1191.
Lemberg, K. - 1191.
Lemieux, O.A. - 4004.
Lenzi, Romolo - 4174, 4257, 4282, 4448.
Leon, S. - 1024.
Lepidi, Jules - 2356.
Lestapis, Stanislas de - 2306, 2313.
Letinier, Georges - 3258.
Levy, Claude - 1266.
Lew, Edward A. - 4165, 4166.
Lewis, J.N. - 3248.
Lewis, J. Parry - 1275.
Lewis, W.A. - 1114.
Lewit, Sarah - 1301, 4515.
L'Héritier, Ph. - 3008.
Lieberman, M.D. - 4468.
Lincoln, George A. - 2037.
Lindseth-Ditlefsen, Else-Marie - 4237.
Linford, R.J. - 3115.
Link, Lilo - 1025.
Link, Vernon B. - 3125.
Linkhardt, M. - 3126.
Lipman, V.D. - 2012.
Lipscomb, J.F. - 4297.
Lockwood, William L. - 3253.
Logan, W.P.D. - 2106, 4486.
Logier, R. - 3381.
Lohman, H.E. - 4117.
Long, Ervin J. - 2254.
Lopez Malo, Ernesto - 2191.
Lorimer, Frank - 1083, 2313, 3009.
Los Angeles Chamber of Commerce. Research Department - 3056.
Losch, August - 3052.
Lückhoff, C.A. - 1231.
Luedicke, Heinz E. - 2280.
Łukaszewicz, Józef - 1136.
Lütge, Friedrich - 2013.
Lutz, Edward A. - 2281.
Luxembourg. Ministère des Affaires Economiques. Service d'Etudes et de Documentation Economique - 3407.
Luza, Radomir - 1115.
Luzzato Fegiz, Pierpaolo - 3311.
Lydall, Harold - 4402.

- M -

McBryde, F. Webster - 2391, 2392.
McConnell, Joseph L. - 1108.
McKelvey, J.L. - 2119.
Mackenzie, Maxwell W. - 3039.
McMahan, C.A. - 4185, 4193, 4194.
MacMahon, B. - 2138.
McMillan, Robert T. - 3061.
McNamara, Robert L. - 1127.
Macura, Miloš - 1144, 2237, 2244, 3343, 4067.
Madagascar. Service de Statistique Générale - 3211, 3234, 3430.
Madeira, João L. - 2021.
Madeni, A. - 3421.
Magnino, Leo - 2192.
Maguet, Jacques J. - 2340.
Mainichi Shimbun. Population Problems Research Council - 3160, 3259, 3276, 4370.
Major, Márton - 1262.
Malaya, Federation of. Registrar of Malayan Statistics - 2065.
Malaya, Federation of. Registrar-General - 2443.
Malécot, Gustave - 4012.
Malignac, Georges - 2289, 3033.
Mallaradhya, J.B. - 1024.
Malta. Central Office of Statistics - 2416.
Mandelbaum, David G. - 3141.
Mandel'chtam, A.E. - 4415.
Mander, Linden A. - 1026.
Manucso, Thomas F. - 3127.
Marcus, Richard - 1273.
Maris, A. - 4369.
Marks, Herbert H. - 4165.
Marks, Richard V. - 1069.
Maroi, Lanfranco - 4217.
Marriott, McKim - 3059.
Marsh, C. Paul - 3197.
Marshall, A.W. - 2271.
Marshall, Herbert - 4004.
Martin, Anne - 1275.

Martin, C.J. - 1237, 3324.
Martin, W.J. - 4184.
Martin, Walter T. - 1197.
Martín de la Escalera, Carmen - 4068.
Maryland-National Capital Park and Planning Commission - 1034.
Masferrer, Alberto - 4013.
Maslow, M.S. - 3098.
Mason, Edward S. - 1046.
Mason, Marie - 3197.
Mathen, K.K. - 1238, 2082, 2155, 4167, 4218, 4231, 4449.
Matsunaga, E. - 4232, 4233.
Matthews, Basil - 3170.
Maunder, W.F. - 4283.
Maxwell, James - 2144.
Mayer, A. - 2149, 2314.
Mayer, Albert J. - 1069.
Mayer, Claudius F. - 1003.
Mayer, H.M. - 4323.
Meadows, Paul - 4082.
Meek, Ronald L. - 1004.
Meerdink, J. - 1070, 3119.
Mehlan, K.H. - 1058, 3099.
Meidner, Rudolf - 2272.
Meier, Ernst - 2081.
Meier, Paul - 4004.
Menchaca, F.J. - 3091.
Mendes Corrêa, António A. - 2248, 4069.
Mercier, Paul - 4118.
Mertens, C. - 4482.
Metropolitan Life Insurance Company - 1067, 1074, 2076, 2120, 2121, 2164, 2170, 2193, 3080, 3110, 3171, 4168, 4207, 4219, 4258, 4324, 4349.
Mexico. Dirección General de Estadística - 1291.
Mexico. Dirección General de Estadística. Departamento de Muestreo - 2383.
Mexico. Instituto del Seguro Social - 1214.
Mezquita Lopez, Manuel - 4336.
Midland Bank Review - 2273.
Miernyk, William H. - 2028.
Mihailović, K. - 2253.
Miller, Ann R. - 1173.
Miller, Clarence J. - 4082.
Millis, Jean - 4220.
Minkes, A.L. - 1196.
Minnesota State Medical Association. Maternal Mortality Committee - 2122.
Mirengoff, William - 4327.
Misra, B.P. - 4416.
Mitchel, N.C. - 4119.
Mitchell, Robert B. - 2260.
Mitkowski, Józef - 3018.
Mohr, D. - 2229.
Moine, M. - 2107.
Molinari, Alessandro - 4382.
Monahan, Thomas P. - 4263.
Mondragón, Rubén - 4061.
Montagne, Robert - 4350.
Montgomery, J.P. - 2276.
Montini, Lodovico - 4351.
Morales, J.L. - 2315.
Moran, P.A.P. - 4450.
Morandini, G. - 2036.
Morazé, Charles - 2051.
Moreau, Pierre - 2316.
Morgan, Evelyn G. - 3217.
Morgan, James N. - 4391.
Morgantini, Adolfo M. - 2284, 3031.
Morita, Yuzo - 3212.
Moriyama, Iwao M. - 2077.
Morocco (French) - 1342.
Morocco (French). Service Central des Statistiques - 1341, 1343.
Mortara, Giorgio - 1083, 1239, 1240, 2022, 2238, 4325.
Motheral, Joe R. - 3198.
Mourant, A.E. - 4337.
Mourgues, L. - 4293.
Mozambique. Repartição Técnica de Estatística - 1344, 1345, 3431.
Mukherjee, Sudhansubhusan - 4120.
Muramatsu, Minoru - 3161, 4483.
Murano, G. - 3156.
Murdock, George P. - 3368.
Murphy, H.B.M. - 4311.
Myers, Charles A. - 1173.
Myers, J.K. - 3277.
Myers, Paul F. - 2026.
Myers, Robert J. - 1048, 1084, 1201, 1202, 2357, 4162.
Mysore Economic Review - 4416.

- N -

N., Br. - 2165.
Nachtsheim, Hans - 3281.
Naguleswaran, P. - 4040.
Nair, V. Sivaraman - 2440.
Nakayama, Ichiro - 3259.
Namjoshi, M.V. - 4352.
Nankivell, Owen - 2352.
Narain, Iqbal - 4284.
National Industrial Conference Board - 4392.
National Manpower Council - 2329, 3300.
National Planning Association - 4353, 4406.
National Planning Association. Committee of New England - 2028.
National Safety Council - 1075.
Naville, Pierre - 3260.
Nedoma, K. - 1095.
Neel, James V. - 2297, 4338.
Neesen, V. - 4070.
Nehnevajsa, Jirl - 4007.
Nelson, Lowry - 1184.
Nepal. Department of Statistics - 4557.
Netherlands. Centraal Bureau voor de Statistiek - 1049, 3116, 3213, 4539.
Netherlands. Ministerie van Sociale Zaken en Volksgezondheid - 3295.

Netherlands. Rijksdienst voor het Nationale Plan - 4105.
Nevett, Albert - 2306.
New Jersey. State Department of Conservation and Economic Development - 1035.
New York. State Department of Commerce - 1145, 3261.
New York. State Department of Labor. Division of Research and Statistics - 1161.
New York Academy of Medicine - 4179.
New York City. Mayor's Advisory Committee for the Aged - 1276.
New York Regional Plan Association - 2070.
New York School of Social Work - 1543.
New York University - 3296.
New York University. Graduate School of Arts and Sciences - 1277.
New Zealand. Census and Statistics Department - 1050, 1350, 2100, 2458, 3432.
New Zealand. Department of Island Territories - 4565, 4566.
Nhonoli, A.M. - 3100.
Nicaragua. Dirección General de Estadística y Censos - 4506.
Nicholas, Paul - 4121.
Nichols, J.B. - 2139.
Nicol, B.M. - 3032.
Nigeria. Census Superintendent - 2450.
Nigeria. Ministry of Social Services - 2451.
Nisbet, John D. - 2145, 4234.
Nørregaard, S. - 3101.
Norris, Clio C. - 3044.
Norris, Vera - 2123.
North Carolina. Eugenics Board - 2317.
Northern Ireland - 3377.
Northern Ireland. General Register Office - 2425, 3417, 4544.
Norway. Statistisk Sentralbyrå - 2101, 2417, 2418, 3408-3410.
Notestein, Frank W. - 3142, 3143, 3252.
Nougier, Louis-René - 1007.
Nunn, G. Raymond - 2372.

- O -

Oblath, Attilio - 2274.
Obradović, Sava - 2214, 2343, 3019.
Oeter, Ferdinand - 4417, 4418.
Oettle, A.G. - 1096.
Oey, Giok Po - 2373.
Ogino, Hiroshi - 3161.
Ohlin, Gorän - 2003.
Okazaki, Ayanori - 2156, 2277, 4071.
Oklahoma. State Department of Health - 3102.
Oliven, John F. - 2124.
Olsson, Bertil - 2325, 3297.
O'Reilly, P. - 2374, 4094.
Organisation for European Economic Co-operation - 2071, 2341.
Oriental Economist - 4072.
Osborn, Robert, Jr. - 3144.
Oshchepkov, G. - 2052.

- P -

Pacaud, S. - 3282.
Pacific Science Congress, Eighth - 1016.
Packer, D.R.G. - 3020, 3363.
Packman, Martin - 1177.
Paddock, Elton F. - 2302.
Padelford, Norman J. - 2037.
Paes Moraes, J.J. - 3344.
Paish, F.W. - 3271.
Pakistan. Punjab. Board of Economic Inquiry - 4558.
Pakistan Institute of International Affairs - 4122.
Palmer, Edgar Z. - 4082.
Palmer, Gladys L. - 1173.
Pan American Union. Columbus Memorial Library - 2375.
Pan American Union. Departamento de Asuntos Culturales - 1278.
Panama. Dirección de Estadística y Censo - 4507.
Pane, Edda dal - 4354.
Papi, Guiseppe U. - 2255.
Paraguay. Dirección General de Estadística - 1304, 1305.
Parkinson, Lindsay - 2278.
Parsons, James J. - 4298.
Parukh, S.K. - 4384.
Parvan, C. - 1036.
Pascon, Paul - 2205.
Pascua, M. - 4208.
Paterson, Robert W. - 4095.
Patno, Mary E. - 1203.
Patterson, Gardner - 1225.
Paul, A. - 1133.
Pavik, Z. - 4014.
Pavlyuk, Mykhaylo - 4142.
Pazos, Felipe - 4015.
Peacock, Alan T. - 1191, 3271.
Pealy, Dorothée S. - 2358.
Pennell, Maryland Y. - 1148.
Perez, Fernando B. - 2023.
Perpiña, Román - 2048.
Peru. Comisión Central del Censo Nacional. Oficina Ejecutiva del Censo Nacional - 2384.
Peru. Dirección Nacional de Estadística - 2407.
Petersen, William - 4016.
Pethe, Vasantkumar - 1215.
Petrovic, S. - 2150.
Philadelphia. City Planning Commission - 3057.

Philadelphia. Institute for Research in Human Relations - 1162.
Philippines. Bureau of the Census and Statistics - 2444, 2445, 3424, 4559.
Phillips, William - 4169.
Pierre, Marcel - 3199.
Pinchbeck, I. - 4264.
Pinxten, K. - 3268.
Pitié, J. - 4132.
Pizzetti, Ernesto - 4451.
Płachcińska, J. - 1076.
Platel, G. - 2089.
Podder, K.C. - 1241.
Podjačik, P.G. - 4076.
Pohle, H. - 4135.
Political and Economic Planning (PEP) - 1192, 1216, 4409.
Pollard, A.H. - 4073.
Pollitzer, R.M. - 1077, 3132, 3135.
Polskie Towarzystwo Ekonomiczne. [Polish Economic Society.] - 4484.
Pommerenke, W.T. - 4244.
Population Problems Research Council - 3160, 3259, 3276, 4370.
Portugal. Instituto Nacional de Estatística - 1317, 2102, 4469.
Portuguese India. Repartição Central de Estatística e Informação - 1339.
Poti, S.J. - 1238.
Potter, E.J. - 3325.
Potter, Edith L. - 3092.
Potter, Robert G., Jr. - 1109, 3145.
Powell, Catherine - 2103.
Prasad, B.G. - 1249.
Prawitz, H. - 4170.
Preisich, G. - 3058.
Pressat, Roland - 2078, 4060, 4066, 4157.
Price, Charles A. - 3182.
Price, Paul H. - 1054, 2194, 3081.
Price, T. - 2166.
Proudfoot, Mary - 2004.
Puerto Rico. Commonwealth. Department of Labor - 4385, 4386.
Puerto Rico. Commonwealth. Department of Labor. Bureau of Labor Statistics - 4143.
Pugh, T.F. - 2138.
Purdy, Lawson - 2261.

- R -

Raboch, J. - 1097.
Raghavachari, S. - 3079.
Raghavan, Nedyam - 2195.
Rajaković, Z. - 3069.
Ramamurti, B. - 3226.
Randers, Av Gunnar - 1051.
Raoux, Mlle - 4293.
Raper, Arthur F. - 2038, 2039.
Rasor, Eugene A. - 1048, 4162.
Ravina, A. - 4209.
Rayhawk, Arthur L. - 2206.
Real Estate Analyst - 4138, 4326.
Redding, A. David - 1146.
Redfield, Robert - 3059.
Redick, Richard W. - 4150.
Regional Plan Association - 4158.
Reich, T. - 3128.
Reichel-Domatoff, Gerardo - 1102.
Reid, A.T. - 1242.
Reinhard, Marcel - 1008.
Reining, Priscilla - 1083.
Reiss, Albert J., Jr. - 3059, 4004.
Reissner, H.G. - 4041.
Remein, Quentin R. - 1072.
Rhea, Theodore R. - 4074.
Rice, Margaret E. - 2103.
Richards, Audrey I. - 1083, 1198.
Riemer, Ruth - 2157, 4221.
Rife, David C. - 2302.
Riley, Charles F. - 1031.
Rivera, Generoso F. - 3061.
Rivlin, Benjamin - 3369.
Robbins, Richard - 3183.
Roberts, B.B. - 3277.
Roberts, G.W. - 4222.
Roberts, J.A. Fraser - 4486.
Robison, Sophia M. - 4364.
Robson, William A. - 4123.
Roca Traver, F.A. - 1009.
Roche, Jean - 3189.
Rochefort, R. - 4485.
Rode, E.A. - 2095.
Rody, Martin J. - 4124.
Rohman-Kwiatkowska, E. - 3202.
Rohmer, P. - 1059, 2090.
Romania - 1085.
Romero, Hernán - 2091.
Rondepierre, Jean - 4428.
Rondot, M.P. - 1218.
Rönne-Petersen, Egil - 1103.
Ros Jimeno, José - 2104.
Rose, E.K. - 2088.
Rosen, George - 1185.
Rosenbaum, S. - 2219.
Rosenberg, Louis - 2251, 3240, 3241, 4365, 4366.
Rosenthal, Judah - 1010.
Ross, R.A. - 3129.
Rossano, J. - 4299.
Rössel, Agda - 4355.
Roszkowski, I. - 1098.
Rottier, George - 1191.
Round Table - 2321, 4285.
Rowntree, Griselda - 4419.
Royal Statistical Society - 4486.
Ruben, Garcia M. - 2125.
Rubin, Ernest - 2190.
Rubin, I.C. - 2151.
Rucker, Allen W. - 2285.
Ruffie, Jacques - 1138.
Russell, E. John - 4371.
Russell, Murray - 2152.
Russo, G. - 2126.
Ruwet, J. - 2014.

- S -

Saar. Statistisches Amt - 1318.
Sablinski, J. - 1243.
Salleron, C. - 3033.
Salvemini, Tommaso - 3235.
Sandwell, Bernard K. - 3039.
Sanghvi, L.D. - 2220.
Sansonetti, Luigi - 4300.
Sarkar, S.S. - 3045.
Saunders, Lyle - 2292.
Sauvy, Alfred - 2006, 2289, 3010, 3034, 3357, 4075.
Savatier, R. - 3288.
Savinšek, B. - 1078.
Savorgnan, Franco - 4159.
Saxon, E.A. - 3248.
Schaake, Ulrich - 4475.
Schachter, Joseph - 1301, 2399.
Scharlau, Kurt - 2005, 4017.
Schätzel, W. - 4312.
Schelsky, H. - 4265.
Schinz, H.R. - 3128, 3130, 3131.
Schlesinger, Edward R. - 3093.
Schmitt, Robert C. - 2342, 4339, 4452-4454.
Schmucker, Helga - 4476.
Schneider, J.R.L. - 2066.
Schnore, Leo F. - 2053, 4125.
Schöller, P. - 4126.
Schull, William J. - 4338.
Schwartz, C.P., Jr. - 4429.
Scott, Eileen M. - 2145.
Scovel, Victor L. - 4099.
Seiichi, Tobata - 3269.
Self, Peter - 1219.
Sellin, Henry - 3296.
Semaine Sociale du Canada - 4301.
Semenova, A. - 4076.
Semon, Thomas T. - 4127.
Sen, M. - 2082.
Senior, Clarence - 2041, 4286.
Sentić, Milica - 2343, 3312, 3313.
Serdar, Vladimir - 2344, 2431, 2432, 3154.
Shafer, J.K. - 1079, 2330.
Shapiro, Harold A. - 1080.
Shapiro, Sam - 1244, 1301, 2399, 3325.
Sharp, Harry P. - 1107, 2054.
Sheddick, Vernon - 3062.
Sheldon, Henry D. - 1189.
Shepperson, W.S. - 4042.
Shimkin, D.B. - 3063.
Shurtleff, Dewey - 3082.
Shryock, Henry S. - 2072.
Siipi, Jouko - 3205.
Sikl, H. - 1060.
Silcock, H. - 2066, 2067.
Silving, Helen - 4438.
Simões, F. - 3157.
Simon of Wythenshawe, Lord - 1167.
Simon-Depitre, Marthe - 4430.
Singer, Milton B. - 3059.
Singh, V.B. - 4410.
Sinha, P. - 4167.
Sjoberg, Gideon - 3055.
Sjögren, Torsten - 2303.
Slocum, Walter L. - 3064.
Smith, Robert S. - 4018.
Smith, Sara - 3035.
Smith, T. Lynn - 1124, 3011, 3035, 3214.
Social Science Research Council - 3172.
Social Science Research Council. Committee on Historiography - 1005.
Società Edison - 4160.
Société des Océanistes - 4049.
Society of Actuaries - 3083.
Solomon, Benjamin - 1147.
Somers, Gerald G. - 2207.
Sommers, Albert T. - 4392.
Somogyi, Stefano - 3075, 4397.
Soret, Marcel - 2024.
Sorre, Maximilien - 3370, 4487, 4488.
Sorrentino, Beniamino - 4240.
Sorrentino, Michelangelo - 4240.
Sorsby, A. - 2304.
South Carolina. Employment Security Commission - 4356.
South Dakota. State College Agricultural Experiment Station. Rural Sociology Department - 4372.
South Pacific Conference, Second - 2318.
Sovani, N.V. - 4223.
Sowder, Wilson T. - 1055.
Spain. Instituto Balmes de Sociología - 2215.
Spain. Instituto Nacional de Estadística - 2419, 3411, 3412.
Spate, O.H.K. - 1027.
Spell, Lota M. - 2376.
Spence, James - 2293.
Spengler, Joseph J. - 1171, 2006, 3012, 4019.
Spicer, C.C. - 3314.
Spiegelman, Mortimer - 2073, 2120, 4020, 4398.
Spinley, B.M. - 1140.
Spratling, F.H. - 1178.
Spuhler, J.N. - 4340.
Srb, Vladimir - 3326.
Srinivasan, M.S. - 3229.
Stanton, W.J. - 4306.
Stark, T. - 2196, 2326.
Statist, The - 1111.
Steel, R.W. - 4077.
Stefanović, Lj. - 2344, 3146, 3236.
Steigenga, Willem - 4078, 4128.
Stern, Curt - 2305, 4021.
Stevens, Sir Bertram - 2323.
Stewart, Charles D. - 1179, 4004.
Stocks, Percy - 1250.
Stojanović, Dragiša - 3345, 3346.
Stolper, Wolfgang F. - 3052, 3059.
Stone, Carol L. - 3064.
Strantz, Aenne von - 2240.
Strecker, Heinrich - 2361.
Stricker, Kurt - 3262.

Strömmer, Aarno - 1052.
Strunk, Frederick R. - 1279.
Stycos, J. Mayone - 2158, 2173, 4266.
Sudan. Government. Ministry of Health - 4562.
Sumner, E.F.W. - 4171.
Sun, E tu Zen - 2377.
Surinam. Welvaartsfonds Suriname - 2408.
Suter, K. - 4079.
Sutter, Jean - 2153, 2221, 4245, 4420.
Svennilson, Ingvar - 2262.
Swadeshi, Satya - 4416.
Swaroop, S. - 3132.
Sweden. Socialstyrelsen - 1105.
Sweden. Statistiska Centralbyrån - 1319, 1320, 2420, 3347, 3413, 4470, 4489.
Sweetser, Frank L., Jr. - 4129.
Switzerland. Eidgenössisches Statistisches Amt - 1321, 2421, 2422, 4540.
Switzerland. Zürich Canton. Statistisches Bureau - 1135.
Szepsy, L. - 2092.
Sztachova, Jirina - 1280.

- T -

Taback, Matthew - 2171.
Tabah, Léon - 2153, 2221, 3357, 4196, 4490.
Tachi, Minoru - 4080.
Taeuber, Irene B. - 1016, 1017, 2025, 3147.
Taft, Donald R. - 3183.
Tähka, H. - 3103.
Takahashi, Eiji - 1061.
Tamagnini, Eusébio - 2140.
Tanoglu, Ali - 4313.
Tasić, Dragoljub - 3215.
Taskin, George A. - 1281.
Taylor, Carl C. - 2359.
Taylor, M.C. - 4421.
Taylor, Wallis - 2108, 2127, 2141, 2222.
Teng, Ssu-yii - 2377.
Terrett, I.B. - 2008.
Texas Research League - 4161.
Thomas, Brinley - 4486.
Thomas, John L. - 2172.
Thompson, Lorin A. - 3035.
Thompson, S.P. - 3203.
Thompson, Virginia - 3242.
Thompson, Warren S. - 2074.
Tietze, Christopher - 2079.
Tizzano, Antonio - 1062, 2093, 2161, 4180, 4181, 4373, 4491.
Tomasevitch, Jozo - 4022.
Torres, Manuel de - 3004.
Toschi, U. - 4455.
Tosco, Manuel - 4061.
Tostlebe, Alvin S. - 1186.
Townsend, Peter - 1245.
Tregear, T.R. - 4081.
Tremelloni, Roberto - 1175.
Trewartha, Glenn, T. - 2047.
Trinidad and Tobago. Central Statistical Office - 4508.
Trinidad and Tobago. Government - 1292.
Trinidad and Tobago. Registrar General's Office - 3382.
Trnjacev, B. - 3327.
Trystram, Jean-Paul - 2205.
Tuna, Orhan - 2198.
Turbani, M. - 4302.
Turkey. Istatistik Umum Müdürlügü - 4560.
Turner, H.A. - 4456.
Tuskegee Institute - 3046.
Tutt, L.W.G. - 4172.
Tyler, Edward T. - 1099.

- U -

Uchida, Kanichi - 4044.
Union of South Africa. Bureau of Census and Statistics - 2456, 4563.
Union Panamericana. Departamento de Asuntos Culturales - 1278.
United Nations. Department of Social Affairs - 3298.
United Nations. Department of Social Affairs. Division of Social Welfare - 3371.
United Nations. Economic and Social Council - 3372, 4025, 4492.
United Nations. Economic and Social Council. Commission on the Status of Women - 3263.
United Nations. Economic Commission for Asia and the Far East - 2055.
United Nations. Economic Commission for Europe - 2262.
United Nations. General Assembly - 3243.
United Nations. General Assembly. Committee on Information from the Non-Self-Governing Territories - 4173.
United Nations. High Commissioner for Refugees - 1118.
United Nations. Korean Reconstruction Agency - 1187.
United Nations. Population Commission - 2365, 3358.
United Nations. Population Division - 1112, 1226, 2079, 2263, 4023, 4024.
United Nations. Secretariat. Office of Legal Affairs - 4431.
United Nations. Secretary-General - 1154.
United Nations. Statistical Office - 1251, 1252, 1263, 1264, 2079, 2353, 3328, 3329, 3435-3437, 4462, 4471.
United Nations. Trusteeship Council. Visiting Mission to Trust Territories in West Africa, 1952 - 1028.
United Nations Educational, Scientific, and Cultural Organization - 1282, 3184, 3359.

U.S. Agricultural Marketing Service - 1293, 2208, 4145.
U.S. Bureau of Employment Security - 4327.
U.S. Bureau of Indian Affairs - 3133.
U.S. Bureau of Indian Affairs. Andarko Area Office. Osage Agency - 3244.
U.S. Bureau of the Budget - 2056.
U.S. Bureau of the Census - 1283, 1293-1296, 2026, 2345, 2378, 2391-2398, 2403, 3070, 3071, 3216, 3373, 3388-3392, 4144, 4145, 4509-4512, 4518-4520.
U.S. Bureau of Labor Statistics - 1163, 1180, 2241, 3315, 4477.
U.S. Children's Bureau - 2385.
U.S. Civil Aeronautics Administration - 2290.
U.S. Civil Aeronautics Board. Bureau of Safety Investigation - 1081.
U.S. Congress. House. Committee on the Judiciary - 4432.
U.S. Congress. Joint Committee on the Economic Report - 2264.
U.S. Congress. Senate. Committee on the Judiciary - 1227.
U.S. Congress. Senate. Committee on Labor and Public Welfare - 2275.
U.S. Department of Agriculture - 4329.
U.S. Department of Agriculture. Library - 4500.
U.S. Department of the Army - 3084.
U.S. Department of Commerce. Business and Defense Services Administration - 1287.
U.S. Department of Justice - 1228.
U.S. Department of Labor - 2242, 4357.
U.S. Department of State - 2200.
U.S. Immigration and Naturalization Service - 1229, 2327, 3393, 4433, 4521.
U.S. Library of Congress. The Hispanic Foundation - 2379.
U.S. Library of Congress. Reference Department - 2380.
U.S. National Archives - 4501.
U.S. National Office of Vital Statistics - 1297-1302, 2105, 2399-2401, 3117, 3383-3387, 4513-4517.
U.S. Public Health Service - 1148, 2330, 2331, 3330.
U.S. Social Security Administration - 2286, 2385, 4162.
U.S. Social Security Administration. Division of Research and Statistics - 2287.
U.S. Veterans Administration - 2243.
U.S. Women's Bureau - 1149, 1150.
Universität Kiel. Institut für Weltwirtschaft - 3264.
University of Chicago. Chicago Community Inventory - 1037, 2057.
University of Chicago. Research Center in Economic Development and Cultural Change - 3059.
University of Colorado. Bureau of Business Research. School of Business - 4096.
University of London. Institute of Education. Department of Education in Backward Areas - 4503.
University of Miami. Bureau of Business and Economic Research - 4097.
University of Minnesota. Social Science Research Center of the Graduate School - 2040.
University of Nebraska. Council for Community Study - 4082.
University of North Carolina. Institute for Research in Social Science - 2173.
University of North Dakota. Bureau of Economic and Business Research - 3074.
University of Virginia. Bureau of Population and Economic Research - 3265.
Ussing, N. - 1191.
Utrillo y Morlius, Jaime - 2027.

- V -

V., J. - 3348.
Valdes La Vallina, F. - 4241.
Valien, Preston - 2252.
Vance, Rupert B. - 3035.
Van den Beld, C.A. - 2197, 2265.
Van den Berg, Bea - 4186.
Van den Brink, T. - 2146.
Van der Elst, Georges - 2134.
Vandergoten, Y. - 2089.
Van der Laan, A.F. - 4083, 4287.
Van der Valk, H.M.H.A. - 4098.
Van Gelderen, H.H. - 4187.
Van Heek, F. - 4235.
Van Meirhaeghe, A. - 3094.
Varela, F.G. - 2216.
Varley, David W. - 4125.
Vénard, André - 3162.
Venezuela. Corporación de Fomento - 1038.
Venezuela. Dirección General de Estadística - 1306.
Venezuela. Dirección General de Estadística. Oficina Central del Censo Nacional - 3331, 3400, 4526.
Vergottini, Mario de - 3272, 4259.
Vermeulen, V. - 3284.
Vernant, Jacques - 1119.
Vernon, Philip E. - 2346.
Verschuer, Otmar Frhr. von - 4224.
Veyret-Verner, Germaine - 4084, 4106.
Vicari, Eros - 3047.
Vieille, Andrée - 1039.
Vila, Marco-A. - 1040.
Villar Salinas, Jesus - 3360.
Villard, Henry H. - 4026.
Villiers, de - 4293.
Vince, S.W.E. - 2061.
Vincent, Paul E. - 3111.

Vinicius da Rocha, Marcos - 3085.
Vining, Rutledge - 3059.
Vink, J. - 3060.
Vito, Francesco - 3255, 4267.
Vogel, Walter - 3316.
Vogelnik, Dolfe - 3332.
Vukadinović, M. - 3065.
Vyhnalek, O. - 3204.

- W -

Waggoner, Deward E. - 3317.
Walker, Harry - 2347.
Walter, Emil J. - 2015.
Walter, L.W. - 4146.
Wapler, R.J. - 4288.
Waris, Heikki - 3205.
Warmelo, A.J. van - 2062.
Warriner, Doreen - 1011.
Wasti, S.M. - 3163.
Watson, Cicely - 1217, 2319.
Watson, L.B. - 2328.
Weibull, Jörgen - 4038.
Weinberg, W. - 1100.
Weiner, Louis - 3318.
Weis, P. - 3299, 4434.
Wells, A.J. - 4497.
Wellwood, L. - 3118, 3334.
Wendt, P.F. - 4163.
Wertheim, W.F. - 3036, 4472.
West, Howard - 3333.
Westergaard, Mogens - 4439.
Western Samoa - 1351.
Westoff, Charles F. - 2133, 2159, 4236.
Whelpton, P.K. - 1044, 2132, 2157, 3148.
White, Helen R. - 1246.
White, Lynn, Jr. - 3021.
Whitelaw, M. James - 3149.
Wickens, P.C. - 4189.
Widstam, Ture - 4164.
Wiecha, D. - 3283.
Wilcocks, W.J. - 2128.
Wilgus, A. Curtis - 2041.
William-Olsson, W. - 1029.
Williamson, Harold F. - 1172.
Willis, N.R. - 3190.
Wilshaw, R.G.H. - 2443.
Wilson, John A. - 3059.
Windmuller, John P. - 1170.
Winfield, G.A. - 3118, 3334.
Winkler, Wilhelm - 4027, 4493.
Winter, P.J. - 3013.
Wirth, Louis - 1282.
Wisconsin Medical Journal - 3134.
Witt, C.D. - 4028.
Wiznitzer, Arnold - 1012.
Woglom, William H. - 3052.
Wokroj, Franciszek - 1018.
Wolfbein, Seymour L. - 1173, 4107.
Wolff, P. de - 1070, 3119.
Wolfle, Dael - 1086, 1188.
Wood, Arthur E. - 4405.
Woodrow Wilson Foundation - 4406.
Woods, C.A. - 3048.
World Health Organization - 1269, 2079, 2160, 2381, 3135-3137, 3158, 3335-3337, 3374, 3433, 3434, 4463, 4567.
Wülker, Gabriele - 1120.
Wurm, Stefan - 1164, 4367.
Wurzbacher, Gerhard - 4268.
Wyoming Industrial Research Council - 4099.

- Y -

Yamazaki, J.N. - 4225.
Yamey, B.S. - 1221.
Yang, Ching-kun - 3173.
Yates, F. - 1247.
Yntema, L. - 4457.
You-Poh-Seng - 4220.
Young, John E. - 1016.
Young, Marilyn - 2257.
Young, Michael - 1199.
Yugoslav Statistical Society - 3361.
Yugoslavia. Savezni Zavod za Statistiku i Evidenciju - 1253, 1325, 2430, 3338, 3349, 3350, 3418, 3419, 4478, 4545, 4546.
Yugoslavia. Serbia. Federated Republic. Zavod za Statistiku i Evidenciju - 1254, 2431, 4547.
Yugoslavia. Slovenia. Federated Republic. Zavod za Statistiko in Evidenco - 1255, 2244, 2432, 3150, 3174, 3354, 4548.

- Z -

Zabor, Z. - 1097.
Zametto, J. - 2094.
Zarković, Slobodan - 1248, 3351-3353.
Zelinsky, Wilbur - 2047.
Zeuthen, F. - 1191.
Zimmer, Basil G. - 3200.
Zubieta, Hernando - 2360.
Zucchini, M. - 4303.

79,

-

tiku i
8,
5,

ublic.
254,

epub-
o -
4,

53.